AEXC20 - 1/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.01

Actual Amplitude: 0.0100004 Actual Power: 0.000100008 Distortion 2H-20H: 7.161%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20

Total switching events: 40
Delta Friendly: No

H11: 0.00141014

H13: 0.00983451

H17: -0.0138973

H15: 0.000437621

P1 start: 15.9444 end: 15.9944 delta: 0.05

P2 start: 32.4161 end: 32.5103 delta: 0.0943 P3 start: 48.5827 end: 48.7113 delta: 0.1285 P4 start: 64.9251 end: 65.0728 delta: 0.1477

P4 start: 64.9251 end: 65.0728 delta: 0.1473 P5 start: 81.6203 end: 81.7772 delta: 0.157

H3: 0.0487353 H19: 0.047448 H5: -0.00914603 H21: -1.0834 H7: -0.00313851 H23: 0.898481 H9: 0.010771 H25: 0.139639

H21: -1.0834 H23: 0.898481 H25: 0.139639 H27: -0.0227386 H29: -0.0134571 H31: 0.0306693

H33: 0.00431527

H21f: -0.0515904 H23f: 0.0390644 H25f: 0.00558557 H27f: -0.00084217 H29f: -0.000464036

H19f: 0.00249726

H31f: 0.000989333 H33f: 0.000130766 c1sd = -0.1533c1ed = -0.1033

c2sd = -0.0108c2ed = -0.0028

c3sd = 0.013c3ed = 0.021

c4sd = -0.0021c4ed = 0.0

varx = 6.476%.

AEXC20 - 2/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.02

Actual Amplitude: 0.0199939 Actual Power: 0.000399755 Distortion 2H-20H: 5.9692%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20

Total switching events: 40 Delta Friendly: No

H17: -0.0138398

P1 start: 15.9492 end: 16.0477 delta: 0.0985

P2 start: 32.3729 end: 32 5578 delta: 0.1849 P3 start: 48.7027 end: 48.9582 delta: 0.2555

P4 start: 64.873 end: 65.1693 delta: 0.2963 P5 start: 81.5913 end: 81.9069 delta: 0.3156

H3: 0.0377471 H19: 0.0360673 H5: -0.0100928 H21: -1.06852 H7: 0.00282076

H23: 0.918175 H9: 0.0147797 H25: 0.109183 H11: -0.0111901 H27: -0.0291405 H13: 0.0119804 H29: 0.00412974 H15: 0.00699196 H31: 0.0457603

H33: -0.0329568

H19f: 0.00189828 H21f: -0.0508818

H23f: 0.0399207 H25f: 0.00436731

H27f: -0.00107928 H29f: 0.000142405 H31f: 0.00147614

H33f: -0.000998691

c1sd = -0.1189

c1ed = -0.0204

c2sd = 0.0032

c2ed = -0.0125c3sd = 0.2129

c3ed = 0.188c4sd = 0.0423

c4ed = 0.0

varx = 6.4701%.

AEXC20 - 3/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.03

Actual Amplitude: 0.0297483 Actual Power: 0.00088496 Distortion 2H-20H: 4.50315% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 15.7326 end: 15.8769 delta: 0.1443
P2 start: 32.3489 end: 32.6181 delta: 0.2692
P3 start: 48.7442 end: 49.1207 delta: 0.3765
P4 start: 64.891 end: 65.3328 delta: 0.4418

P4 start: 64.891 end: 65.3328 delta: 0.4418 P5 start: 81.582 end: 82.057 delta: 0.475

H3: 0.0227576 H19: 0.0220726 H5: -0.00606245 H21: -1.06224 H7: 0.00486532 H23: 0.927361

H7: 0.00486532 H23: 0.927361 H9: 0.0199094 H25: 0.0637711 H11: -0.0110869 H27: -0.0213058 H13: 0.017635 H29: 0.0092401 H15: 0.00820163 H31: 0.0590302 H17: -0.00804664 H33: -0.0332399 H19f: 0.00116171 H21f: -0.0505826

H23f: 0.04032 H25f: 0.00255084 H27f: -0.000789103 H29f: 0.000318624

H31f: 0.0019042 H33f: -0.00100727 c1sd = -0.2855

c1ed = -0.1412

c2sd = 0.076

c2ed = -0.049c3sd = 0.3897

c3sd = 0.3697c3ed = 0.2151

c4sd = 0.2237c4ed = 0.0

varx = 6.4697%.

AEXC20 - 4/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.04 Actual Amplitude: 0.039798 Actual Power: 0.00158388 Distortion 2H-20H: 3.08672% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: -0.00469312

P1 start: 15.7174 end: 15.9079 delta: 0.1905 P2 start: 32 3548 end: 32.7107 delta: 0.3559 P3 start: 48.7418 end: 49.2413 delta: 0.4995 end: 65.5204 P4 start: 64.9284 delta: 0.592 end: 82.1406 P5 start: 81.501 delta: 0.6397

H3: 0.0131487 H19: 0.0121118 H5: -0.00327683 H21: -1.04907 H7: 0.00583377 H23: 0.942516 H25: 0.0354783 H9: 0.0161498 H11: -0.00564062 H27: -0.014323 H13: 0.0145202 H29: 0.013538 H15: 0.00793336

H31: 0.0463089

H33: -0.017115

H21f: -0.0499557 H23f: 0.040979 H25f: 0.00141913 H27f: -0.000530483 H29f: 0.000466829 H31f: 0.00149384

H19f: 0.000637461

H33f: -0.000518638

c1sd = -0.2432c1ed = -0.0527c2sd = 0.193c2ed = -0.0676c3sd = 0.5427c3ed = 0.1804c4sd = 0.4488c4ed = 0.0varx = 6.4616%.

AEXC20 - 5/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.05

Actual Amplitude: 0.0499276 Actual Power: 0.00249277 Distortion 2H-20H: 2.2239%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20

Total switching events: 40 Delta Friendly: No P1 start: 15.6343 end: 15.8709

P2 start: 32.3273 end: 32.7703 P3 start: 48.6854 end: 49.308

end: 65.685 P4 start: 64.9414 P5 start: 81.4123

end: 82.2192

delta: 0.443 delta: 0.6225 delta: 0.7436

delta: 0.2366

delta: 0.8069

H3: 0.00615355

H7: 0.00575197

H9: 0.0129994

H11: 0.00176999

H13: 0.0122952

H15: 0.00752927

H17: -5.00713e-06

H5: -0.000302788

H19: 0.00659937

H21: -1.0446 H23: 0.946043

H25: 0.0157734 H27: -0.00559857 H29: 0.0134504

H31: 0.035828

H33: 0.00481846

H19f: 0.000347335

H21f: -0.0497429

H23f: 0.0411323 H25f: 0.000630935 H27f: -0.000207355

H29f: 0.000463807 H31f: 0.00115574

H33f: 0.000146014

c1sd = -0.2758

c1ed = -0.0393

c2sd = 0.263c2ed = -0.1055

c3sd = 0.6226

c3ed = 0.1108c4sd = 0.6264

c4ed = 0.0

varx = 6.4547%.

AEXC20 - 6/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.06

Actual Amplitude: 0.0600302 Actual Power: 0.00360363 Distortion 2H-20H: 1.6259%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20

Total switching events: 40 Delta Friendly: No P1 start: 15.7061 end: 15.9891 delta: 0.283

P2 start: 32 3035 end: 32.8355 delta: 0.5321 P3 start: 48.628 end: 49.3737 delta: 0.7457 end: 65.8107 P4 start: 64.9161 delta: 0.8946

end: 82.2897 P5 start: 81.318 delta: 0.9716

H3: 0.0040025 H5: 0.00111681 H7: 0.00523258

H17: 0.00132348

H21: -1.03609 H23: 0.952894 H9: 0.0084861 H25: 0.0114907 H11: 0.00436866 H27: -0.000105211 H13: 0.00846478 H29: 0.0128318 H15: 0.00597391 H31: 0.0235204

H19: 0.00441783

H33: 0.0127931

H19f: 0.000232517 H21f: -0.0493374

H23f: 0.0414302 H25f: 0.000459629 H27f: -3.89669e-06 H29f: 0.000442476 H31f: 0.000758722

H33f: 0.000387669

c1sd = -0.1656

c1ed = 0.1175c2sd = 0.3137

c2ed = -0.1147

c3sd = 0.6693c3ed = 0.0724

c4sd = 0.7268c4ed = 0.0

varx = 6.4426%.

AEXC20 - 7/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

P5 start: 81.2383

H21f: -0.0488592

Desired Amplitude: 0.07 Actual Amplitude: 0.0700261

Actual Power: 0.00490365 Distortion 2H-20H: 1.17326% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H3: 0.00334374

H5: 0.00135643

P1 start: 15.8201 end: 16.1488 delta: 0.3286
P2 start: 32.2834 end: 32.9043 delta: 0.6208
P3 start: 48.5808 end: 49.4494 delta: 0.8686
P4 start: 64.8632 end: 65.9065 delta: 1.0433

end: 82.372

H19: 0.00347041 H19f: 0.000182653

H21: -1.02604

H11: 0.00302623 H27: 0.00219633 H27f: 8.13454e-05 H13: 0.00579633 H29: 0.0104543 H29f: 0.000360493 H15: 0.00433162 H31: 0.0163893 H31f: 0.000528686

H17: 0.00141462 H33: 0.00899598 H33f: 0.000272605

c1sd = -0.0221c1ed = 0.3065

delta: 1.1337

c2sd = 0.3504c2ed = -0.1027

c3sd = 0.7014

c3ed = 0.0687c4sd = 0.7697

c4ed = 0.0

varx = 6.4277%.

AEXC20 - 8/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.08

Actual Amplitude: 0.0799374 Actual Power: 0.00638998 Distortion 2H-20H: 1.12248%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40

Delta Friendly: No P1 start: 15.8007 end: 16.1757 delta: 0.375

P2 start: 32.2387 end: 32.947 delta: 0.7083 P3 start: 48.519 end: 49.51 delta: 0.9909 end: 65.9866 P4 start: 64.7957 delta: 1.1909

P5 start: 81.1562 end: 82.4511 delta: 1.2949

H19: 0.00296432 H3: 0.00286175 H5: 0.00175673 H21: -1.02401 H7: 0.00391972

H23: 0.959003 H9: 0.00542255 H25: 0.0116218 H11: 0.00344582 H27: 0.00326137 H13: 0.00525008 H29: 0.0104435

H15: 0.00435551 H31: 0.0151586 H17: 0.00166047 H33: 0.0102505

H19f: 0.000156017 H21f: -0.0487626

H23f: 0.0416958 H25f: 0.000464872

H27f: 0.000120791 H29f: 0.000360122 H31f: 0.000488987

H33f: 0.000310622

c1sd = -0.017

c1ed = 0.358

c2sd = 0.3531

c2ed = -0.1074c3sd = 0.706

c3ed = 0.063

c4sd = 0.7823

c4ed = 0.0

varx = 6.4159%.

AEXC20 - 9/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.09

Actual Amplitude: 0.0899559 Actual Power: 0.00809207 Distortion 2H-20H: 0.826518%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20

Total switching events: 40 Delta Friendly: No P1 start: 15.8769 delta: 0.4199 end: 16.2968

P2 start: 32.216 end: 33.0128 delta: 0.7968 P3 start: 48.4691 end: 49.5832 delta: 1.1141 P4 start: 64.7321 end: 66.072 delta: 1.34

P5 start: 81.0775 end: 82.5351 delta: 1.4576

H3: 0.00220192

H19: 0.00262245 H5: 0.00154488 H21: -1.0157 H7: 0.00287864 H23: 0.963604 H9: 0.00380944 H25: 0.0122595 H11: 0.00215475 H27: 0.00361452

H13: 0.00376876 H29: 0.00805999 H15: 0.00320271 H31: 0.0109342 H17: 0.00151613 H33: 0.00647406 H19f: 0.000138024

H21f: -0.0483668 H23f: 0.0418958

H25f: 0.000490381 H27f: 0.000133871 H29f: 0.000277931

H31f: 0.000352715 H33f: 0.000196184 c1sd = 0.0853

c1ed = 0.5052

c2sd = 0.3811c2ed = -0.0922

c3sd = 0.7268

c3ed = 0.0655c4sd = 0.8041

c4ed = 0.0

varx = 6.3989%.

AEXC20 - 10/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.1

Actual Amplitude: 0.0999394 Actual Power: 0.00998789 Distortion 2H-20H: 0.670671%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20

Total switching events: 40 Delta Friendly: No P1 start: 15.9015 end: 16.3671

P2 start: 32.1896 end: 33.0748

P3 start: 48.4132 end: 49.6508 P4 start: 64.6633 end: 66.1516

P5 start: 80.9976 end: 82.6169

H3: 0.00206245 H5: 0.00127331 H7: 0.00221714

H17: 0.0010842 H33: 0.00556234

H19: 0.00187484

H21: -1.01001

H19f: 9.8676e-05

H21f: -0.0480958 H23f: 0.0419502

H25f: 0.000525773 H27f: 0.000111192 H29f: 0.000219006

H31f: 0.00029354 H33f: 0.000168556 c1sd = 0.1344

delta: 0.4655

delta: 0.8853

delta: 1.2376

delta: 1.4884

delta: 1.6193

c1ed = 0.5999

c2sd = 0.4017

c2ed = -0.0773c3sd = 0.7368

c3ed = 0.0672c4sd = 0.8149

c4sd = 0.81c4ed = 0.0

varx = 6.382%.

AEXC20 - 11/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.11
Actual Amplitude: 0.109962
Actual Power: 0.0120917
Distortion 2H-20H: 0.505804%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 0.000719304

P1 start: 15.9314 end: 16.4421 delta: 0.5107
P2 start: 32.1612 end: 33.1345 delta: 0.9733
P3 start: 48.3587 end: 49.7198 delta: 1.3611
P4 start: 64.5942 end: 66.232 delta: 1.6378
P5 start: 80.9155 end: 82.6976 delta: 1.7821

 H3:
 0.00153421
 H19:
 0.00155728
 H1

 H5:
 0.000933642
 H21:
 1.00395
 H2

 H7:
 0.00180111
 H23:
 0.965951
 H2

 H9:
 0.00232084
 H25:
 0.0138156
 H2

 H11:
 0.00140635
 H27:
 0.00227074
 H2

 H13:
 0.00222251
 H29:
 0.00520581
 H2

 H15:
 0.00196676
 H31:
 0.00667747
 H3

H33: 0.00425543

H19f: 8.19621e-05 c1sd = 0.1888c1ed = 0.6995H21f: -0.0478069 H23f: 0.0419979 c2sd = 0.421H25f: 0.000552624 c2ed = -0.0653H27f: 8.41014e-05 c3sd = 0.7488H29f: 0.000179511 c3ed = 0.0697H31f: 0.000215402 c4sd = 0.8262H33f: 0.000128953 c4ed = 0.0varx = 6.3634%.

AEXC20 - 12/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.12
Actual Amplitude: 0.120018
Actual Power: 0.0144044
Distortion 2H-20H: 0.391628%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20 Total switching events: 40

Delta Friendly: No

H15: 0.00145895

H17: 0.000810718

P1 start: 15.9447 end: 16.5009 delta: 0.5562
P2 start: 32.1247 end: 33.1867 delta: 1.0621
P3 start: 48.2983 end: 49.7835 delta: 1.4852
P4 start: 64.5231 end: 66.3105 delta: 1.7874
P5 start: 80.835 end: 82.7805 delta: 1.9455

H3: 0.00126866 H19: 0.00125407 H5: 0.00086338 H21: -0.999189 H7: 0.00126122 H23: 0.965141 H9: 0.00176096 H25: 0.015019 H11: 0.00104708 H27: 0.00238917 H13: 0.00168399 H29: 0.00377936

 H23:
 0.965141
 H23f:
 0.0419627

 H25:
 0.015019
 H25f:
 0.000600762

 H27:
 0.00238917
 H27f:
 8.84877e-05

 H29:
 0.00377936
 H29f:
 0.000130323

 H31:
 0.00508522
 H31f:
 0.000164039

 H33:
 0.00318314
 H33f:
 9.64587e-05

H19f: 6.60038e-05

H21f: -0.0475804

c1sd = 0.2262 c1ed = 0.7824 c2sd = 0.4309 c2ed = -0.0595 c3sd = 0.7534 c3ed = 0.0684 c4sd = 0.8336 c4ed = 0.0 varx = 6.3441%.

AEXC20 - 13/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.13 Actual Amplitude: 0.129964 Actual Power: 0.0168906 Distortion 2H-20H: 0.322925% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40

Delta Friendly: No

H15: 0.00122888 H17: 0.000554948 P1 start: 15.94 end: 16.5415 delta: 0.6015 P2 start: 32 0872 end: 33 2366 delta: 1 1493 P3 start: 48.2387 end: 49.8465 delta: 1.6078 P4 start: 64 4501 end: 66.3858 delta: 1.9357 P5 start: 80.7532 end: 82.8604 delta: 2.1072

H3: 0.000961358 H19: 0.000932335 H5: 0.000720113 H21: -0.995188 H7: 0.00114068 H23: 0.963116 H25: 0.0161754 H9: 0.00148132 H11: 0.00097332 H27: 0.00192696 H13: 0.00136201 H29: 0.00335151

H31: 0.00423111

H33: 0.00295209

H21f: -0.0473899 H23f: 0.0418746 H25f: 0.000647016 H27f: 7.13687e-05 H29f: 0.000115569 H31f: 0.000136487 H33f: 8.94574e-05

H19f: 4.90703e-05

c1sd = 0.2445c1ed = 0.846c2sd = 0.4381c2ed = -0.0543c3sd = 0.7562c3ed = 0.069c4sd = 0.8359c4ed = 0.0varx = 6.324%.

AEXC20 - 14/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.14
Actual Amplitude: 0.139978
Actual Power: 0.0195938
Distortion 2H-20H: 0.256907%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20

Total switching events: 40 Delta Friendly: No

H3: 0.000801139

H5: 0.000467888

H17: 0.000438771

P1 start: 15.9381 end: 16.5848 delta: 0.6466
P2 start: 32.0478 end: 33.2853 delta: 1.2375
P3 start: 48.1774 end: 49.9089 delta: 1.7315
P4 start: 64.3749 end: 66.46 delta: 2.0851
P5 start: 80.6713 end: 82.941 delta: 2.2697

H19: 0.000786595 H19f: 4.13998e-05 H21: -0.991098 H21f: -0.0471951

 H7:
 0.000891396
 H23:
 0.960645
 H23f:
 0.0417672

 H9:
 0.00115523
 H25:
 0.0179434
 H25f:
 0.000717735

 H11:
 0.000722903
 H27:
 0.00140334
 H27f:
 5.19757e-05

H13: 0.00110072 H29: 0.00270372 H29f: 9.32317e-05 H15: 0.00103188 H31: 0.00334694 H31f: 0.000107966

H33: 0.00220627 H33f: 6.68565e-05

c1sd = 0.2654 c1ed = 0.912 c2sd = 0.4426 c2ed = -0.0495 c3sd = 0.7563 c3ed = 0.07 c4sd = 0.8349 c4ed = 0.0

varx = 6.3023%.

AEXC20 - 15/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.15
Actual Amplitude: 0.149974
Actual Power: 0.0224921

Distortion 2H-20H: 0.156766% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 0.000642521

H17: 0.000316506

P1 start: 15.9447 end: 16.6361 delta: 0.6914
P2 start: 32.0123 end: 33.3374 delta: 1.325
P3 start: 48.1181 end: 49.9726 delta: 1.8545
P4 start: 64.3031 end: 66.5372 delta: 2.2341
P5 start: 80.5898 end: 83.0224 delta: 2.4326

H19f: 2.18195e-05

H21f: -0.0469514

H23f: 0.0416854

H3: 0.000397232 H19: 0.000414571 H5: 0.000330943 H21: -0.98598 H7: 0.00055974 H23: 0.958764 H9: 0.000714681 H25: 0.0192034 H11: 0.000517483 H27: 0.0010812 H13: 0.000643046 H29: 0.00171266

H25: 0.0192034 H25f: 0.000768134 H27: 0.0010812 H27f: 4.00443e-05 H29: 0.00171266 H29f: 5.90573e-05 H31: 0.00204098 H31f: 6.5838e-05 H33: 0.0015703 H33f: 4.75848e-05 c1sd = 0.2956 c1ed = 0.987 c2sd = 0.4529 c2ed = -0.0432 c3sd = 0.7609 c3ed = 0.0697 c4sd = 0.8403 c4ed = 0.0 yarx = 6.2786%.

AEXC20 - 16/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.16 Actual Amplitude: 0.159964 Actual Power: 0.0255884 Distortion 2H-20H: 0.149702% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 0.000215808

P1 start: 15.9229 end: 16.6602 delta: 0.7373 P2 start: 31.9655 end: 33.3786 delta: 1.4131 P3 start: 48.0518 end: 50.0297 delta: 1.9779 end: 66.6074 P4 start: 64.2244 delta: 2.383 P5 start: 80.5079 end: 83.103 delta: 2.595

H3: 0.000449598 H19: 0.000425585 H19f: 2.23992e-05 H5: 0.000333901 H21: -0.983189 H7: 0.000487913 H23: 0.954014 H9: 0.000746536 H25: 0.0217544 H11: 0.000407618 H27: 0.0010363 H13: 0.000676678 H29: 0.00146598 H15: 0.00052946 H31: 0.0021241

H33: 0.00126075

H21f: -0.0468185 H23f: 0.0414789 H25f: 0.000870177 H27f: 3.83817e-05 H29f: 5.05509e-05 H31f: 6.85193e-05

H33f: 3.82046e-05

c1sd = 0.2953c1ed = 1.0326c2sd = 0.4476c2ed = -0.0436c3sd = 0.7528c3ed = 0.0687c4sd = 0.8318c4ed = 0.0varx = 6.255%.

AEXC20 - 17/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.17
Actual Amplitude: 0.169965
Actual Power: 0.0288882

Distortion 2H-20H: 0.0865622% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 15.919 end: 16.7011 delta: 0.7821
P2 start: 31.9245 end: 33.4253 delta: 1.5008
P3 start: 47.9893 end: 50.0905 delta: 2.1012
P4 start: 64.1491 end: 66.6814 delta: 2.5323

P5 start: 80.4256 end: 83.1834 delta: 2.7578

H3: 0.000261952 H19: 0.000258129 H19f: 1.35857e-05 H5: 0.000167798 H21: -0.978764 H21f: -0.0466078

 H7:
 0.000295206
 H23:
 0.95046
 H23f:
 0.0413244

 H9:
 0.000423638
 H25:
 0.0238759
 H25f:
 0.000955036

 H11:
 0.000218505
 H27:
 0.000716448
 H27f:
 2.65351e-05

H11: 0.000218505 H27: 0.000716448 H27: 2.65351e-05 H13: 0.000390627 H29: 0.000878052 H29f: 3.02777e-05 H15: 0.000306871 H31: 0.00121775 H31f: 3.92821e-05

H17: 0.000157408 H33: 0.000683321 H33f: 2.07067e-05

c1sd = 0.3141 c1ed = 1.0962 c2sd = 0.4504 c2ed = -0.0407 c3sd = 0.7515 c3ed = 0.0682 c4sd = 0.8304 c4ed = 0.0 varx = 6.229%.

AEXC20 - 18/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.18
Actual Amplitude: 0.179996
Actual Power: 0.0323984
Distortion 2H-20H: 0.0575354%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 15.9027 end: 16.7303 delta: 0.8275
P2 start: 31.8793 end: 33.4681 delta: 1.5888
P3 start: 47.9239 end: 50.1488 delta: 2.2249
P4 start: 64.0716 end: 66.7536 delta: 2.682
P5 start: 80.3422 end: 83.2633 delta: 2.9212

H3: 0.000177083 H19: 0.00016246 H19f: 8.5505e-06 H21f: -0.0464329 H5: 9.72272e-05 H21: -0.975091 H7: 0.0002072 H23: 0.945634 H23f: 0.0411145 H9: 0.000258973 H25: 0.0263824 H25f: 0.0010553 H11: 0.000189885 H27: 0.000560857 H27f: 2.07725e-05 H29f: 2.19141e-05 H13: 0.000236662 H29: 0.000635508 H15: 0.000235324 H31: 0.000745328 H31f: 2.40428e-05 H17: 7.99107e-05 H33: 0.000578689 H33f: 1.7536e-05

c1sd = 0.32 c1ed = 1.1475 c2sd = 0.448 c2ed = -0.0407 c3sd = 0.7459 c3ed = 0.0667 c4sd = 0.8253 c4ed = 0.0 varx = 6.2019%.

AEXC20 - 19/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.19
Actual Amplitude: 0.189982
Actual Power: 0.036093
Distortion 2H-20H: 0.0339956%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 15.8849 end: 16.7577 delta: 0.8728
P2 start: 31.833 end: 33.5095 delta: 1.6765
P3 start: 47.8579 end: 50.2059 delta: 2.348
P4 start: 63.9939 end: 66.8249 delta: 2.8311
P5 start: 80.2595 end: 83.3435 delta: 3.084

H19: 8.32149e-05 H19f: 4.37973e-06 H3: 0.000115845 H5: 6.45535e-05 H21: -0.971435 H21f: -0.0462588 H7: 0.000112649 H23: 0.940359 H23f: 0.0408852 H25: 0.0290768 H9: 0.000156723 H25f: 0.00116307 H11: 0.000116753 H27: 0.000533212 H27f: 1.97486e-05 H13: 0.00014433 H29: 0.000350248 H29f: 1.20775e-05 H31f: 1.45516e-05 H15: 0.000129427 H31: 0.000451099 H17: 5.092e-05 H33: 0.000356468 H33f: 1.08021e-05 c1sd = 0.324 c1ed = 1.1968 c2sd = 0.4441 c2ed = -0.0415 c3sd = 0.739 c3ed = 0.0648 c4sd = 0.8188 c4ed = 0.0 varx = 6.1737%.

AEXC20 - 20/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

P5 start: 80.1761

Desired Amplitude: 0.2 Actual Amplitude: 0.2

Actual Power: 0.0399998 Distortion 2H-20H: 0.0232663% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly:

H3: 7.23496e-05 H5: 4.86462e-05

H7: 7.62706e-05

H9: 0.000111223

H11: 6.11614e-05

H13: 9.60315e-05

P1 start: 15.8628 end: 16.781 delta: 0.9182 P2 start: 31.7847 end: 33.5489 delta: 1.7643 P3 start: 47.7907 end: 50.2623 delta: 2.4716 P4 start: 63.9147 end: 66.8954 delta: 2.9807

end: 83.4236

No

H19: 7.49725e-05

H21: -0.967961 H23: 0.934399 H25: 0.0320095

H27: 0.000558896 H29: 0.00024556

H15: 9.38521e-05 H31: 0.000312366 H17: 3.08475e-05 H33: 0.000193304 H19f: 3.94592e-06

H21f: -0.0460934 H23f: 0.040626

H25f: 0.00128038 H27f: 2.06999e-05 H29f: 8.46759e-06

H31f: 1.00763e-05 H33f: 5.8577e-06

c1sd = 0.3234

delta: 3.2475

c1ed = 1.2416c2sd = 0.4374

c2ed = -0.0438

c3sd = 0.7301

c3ed = 0.0628c4sd = 0.8101c4ed = 0.0

varx = 6.1442%.

AEXC20 - 21/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.21
Actual Amplitude: 0.21
Actual Power: 0.0441
Distortion 2H-20H: 0.0142606%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H13: 5.94063e-05

H15: 5.62798e-05

H17: 2.22784e-05

P1 start: 15.8396 end: 16.8031 delta: 0.9635
P2 start: 31.7361 end: 33.588 delta: 1.8519
P3 start: 47.723 end: 50.3179 delta: 2.5949
P4 start: 63.8354 end: 66.9655 delta: 3.1302
P5 start: 80.0927 end: 83.5034 delta: 3.4107

H19f: 2.31447e-06

H21f: -0.045923

H23f: 0.0403521

H33f: 3.57669e-06

H3: 5.0594e-05 H19: 4.39749e-05 H5: 2.48633e-05 **H21: -0.964384** H7: 4.45021e-05 **H23: 0.928097** H9: 6.81814e-05 H25: 0.0350864 H11: 3.74527e-05 H27: 0.000593529

H25: 0.0350864 H25f: 0.00140346 H27: 0.000593529 H27f: 2.19826e-05 H29: 0.000145888 H29f: 5.03061e-06 H31: 0.000191721 H31f: 6.18455e-06

H33: 0.000118031

c1sd = 0.3218 c1ed = 1.2853 c2sd = 0.4304 c2ed = -0.0463 c3sd = 0.7206 c3ed = 0.0604 c4sd = 0.8009 c4ed = 0.0 varx = 6.1133%

AEXC20 - 22/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.22
Actual Amplitude: 0.22
Actual Power: 0.0484
Distortion 2H-20H: 0.0126165%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 2.226e-05

P1 start: 15.8137 end: 16.8225 delta: 1.0088
P2 start: 31.6862 end: 33.6256 delta: 1.9394
P3 start: 47.6546 end: 50.3728 delta: 2.7182
P4 start: 63.7554 end: 67.0351 delta: 3.2797
P5 start: 80.009 end: 83.5831 delta: 3.5741

H3: 3.99003e-05
H5: 2.73898e-05
H7: 4.17893e-05
H9: 5.99462e-05
H1: 3.87609e-05
H2: -0.96086
H23: 0.921276
H25: 0.0383317
H11: 3.87609e-05
H27: 0.000701315
H31: 4.848e-05
H31: 0.000165881

H33: 0.000120192

 H23:
 0.921276

 H25:
 0.0383317

 H27:
 0.000701315

 H29:
 0.000137044

 H31:
 0.000165881

 H28:
 0.0400555

 H29:
 0.00153327

 H27:
 2.59746e-05

 H29:
 4.72565e-06

 H31:
 5.35099e-06

H19f: 2.05447e-06

H33f: 3.64219e-06

H21f: -0.0457552

c1sd = 0.3171 c1ed = 1.326 c2sd = 0.4217 c2ed = -0.0499 c3sd = 0.7097 c3ed = 0.0576 c4sd = 0.7905 c4ed = 0.0 varx = 6.0811%.

AEXC20 - 23/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.23 Actual Amplitude: 0.229998 Actual Power: 0.0528991

Distortion 2H-20H: 0.0131306% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 5.68857e-05

H17: 2.19135e-05

P1 start: 15.7871 end: 16.8413 delta: 1.0541 P2 start: 31.6357 end: 33 6626 delta: 2 0269 P3 start: 47.5857 end: 50.4271 delta: 2.8414 end: 67.1042 delta: 3.4292 P4 start: 63.675 P5 start: 79.9252 end: 83 6628

H19: 4.17143e-05 H3: 4.26753e-05 H5: 3.22044e-05 H21: -0.957231 H7: 4.39323e-05 H23: 0.914107 H9: 5.76703e-05 H25: 0.0417336 H11: 2.86168e-05 H13: 5.34033e-05

H27: 0.000829602 H29: 0.000149667 H31: 0.000166536 H33: 9.28098e-05

H21f: -0.0455824 H23f: 0.0397438 H25f: 0.00166934

H19f: 2.19549e-06

H27f: 3.0726e-05 H29f: 5.16093e-06 H31f: 5.37212e-06

H33f: 2.81242e-06

c1sd = 0.3117

delta: 3.7376

c1ed = 1.3659c2sd = 0.4121

c2ed = -0.0538c3sd = 0.698

c3ed = 0.0548c4sd = 0.7791

c4ed = 0.0

varx = 6.0476%.

AEXC20 - 24/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

 Desired Amplitude:
 0.24

 Actual Amplitude:
 0.239986

 Actual Power:
 0.0575931

 Distortion 2H-20H:
 0.0103213%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20 Total switching events: 40

Delta Friendly: No

H3: 2.81446e-05 H5: 2.99787e-05 P1 start: 15.7613 end: 16.8605 delta: 1.0993
P2 start: 31.5857 end: 33.6997 delta: 2.1141
P3 start: 47.5167 end: 50.4812 delta: 2.9645
P4 start: 63.5946 end: 67.1732 delta: 3.5786
P5 start: 79.8413 end: 83.7425 delta: 3.9012

H19: 2.53318e-05 H19f: 1.33325e-06 H21: -0.953359 H21f: -0.045398

H7: 2.85964e-05 H23: 0.906747 H23f: 0.0394238 H9: 5.53757e-05 H25: 0.0452078 H25f: 0.00180831

H11: 2.84033e-05 H27: 0.000955675 H27f: 3.53954e-05 H13: 4.34697e-05 H29: 0.000104575 H29f: 3.60602e-06 H15: 3.67461e-05 H31: 0.000148333 H31f: 4.78493e-06

H17: 1.97366e-05 H33: 9.0701e-05 H33f: 2.74851e-06

c1sd = 0.307 c1ed = 1.4063 c2sd = 0.403 c2ed = -0.0576 c3sd = 0.6862 c3ed = 0.0517 c4sd = 0.7678 c4ed = 0.0 varx = 6.0127%.

AEXC20 - 25/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.25
Actual Amplitude: 0.25
Actual Power: 0.0625
Distortion 2H-20H: 0.0108141%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 4.66072e-05

H17: 1.54282e-05

P1 start: 15.7345 end: 16.879 delta: 1.1445
P2 start: 31.5346 end: 33.7361 delta: 2.2015
P3 start: 47.447 end: 50.5349 delta: 3.0879
P4 start: 63.5133 end: 67.2418 delta: 3.7286
P5 start: 79.7568 end: 83.822 delta: 4.0652

H3: 3.53146e-05
H5: 2.44673e-05
H7: 3.60807e-05
H9: 4.90087e-05
H1: 2.1553e-05
H2: -0.949411
H2: 0.898977
H2: 0.00109766
H3: 3.76886e-05
H2: 0.00012892

H31: 0.000132481 H33: 7.09236e-05 H19f: 2.2637e-06

H23f: 0.0390859 H25f: 0.00195511 H27f: 4.06543e-05 H29f: 4.44553e-06

H31f: 4.27359e-06 H33f: 2.1492e-06 c1sd = 0.3013

c1ed = 1.4458c2sd = 0.3926

c2ed = -0.0619c3sd = 0.6733

c3ed = 0.0486c4sd = 0.7551

c4ed = 0.0

varx = 5.9763%.

AEXC20 - 26/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.26 Actual Amplitude: 0.26

Actual Power: 0.0675997 Distortion 2H-20H: 0.00962647%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 15.7079 end: 16.8974 delta: 1.1895
P2 start: 31.4838 end: 33.7724 delta: 2.2886
P3 start: 47.3772 end: 50.5882 delta: 3.2111
P4 start: 63.432 end: 67.3103 delta: 3.8783

P5 start: 79.6724 end: 83.9016 delta: 4.2292

H3: 3.3178e-05 H5: 1.62874e-05 H7: 3.06483e-05 H9: 4.79671e-05 H

H11: 2.01934e-05

H13: 4.02582e-05

H15: 4.00082e-05

H17: 4.27532e-06

H19: 3.18313e-05 H21: -0.945263 H23: 0.890986 H25: 0.052616 H27: 0.00124457 H29: 0.000113484

H25f: 0.00210464 H27f: 4.60952e-05 H29f: 3.91326e-06

H31: 0.000132367 H33: 6.84789e-05 H31f: 4.2699e-06 H33f: 2.07512e-06

H19f: 1.67533e-06

H21f: -0.0450125

H23f: 0.0387385

c1sd = 0.2957

c1ed = 1.4852c2sd = 0.3823

c2ed = -0.0661c3sd = 0.6602

c3ed = 0.0452c4sd = 0.7422

c4ed = 0.0

varx = 5.9387%.

AEXC20 - 27/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.27 Actual Amplitude: 0.27

Actual Power: 0.0728999 Distortion 2H-20H: 0.00502839% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40

Delta Friendly:

P1 start: 15.6823 end: 16.9167 delta: 1.2344 P2 start: 31.4328 end: 33.8085 delta: 2.3757

P3 start: 47.3071 end: 50.6412 delta: 3,3341 end: 67.3787 P4 start: 63.3506 delta: 4.0282

end: 83 9812 P5 start: 79.5878 delta: 4.3934

H3: 2.03313e-05 H19: 1.67759e-05 H5: 1.25923e-05

H21: -0.94089 H7: 1.54994e-05 H23: 0.882782 H9: 2.10496e-05 H25: 0.0564484 H11: 1.40028e-05 H27: 0.00143341

No

H13: 1.83998e-05 H29: 6.81759e-05 H15: 1.86261e-05 H31: 5.8165e-05 H33: 4.36778e-05 H17: 1.04991e-05

H19f: 8.82943e-07 H21f: -0.0448043

H23f: 0.0383818 H25f: 0.00225794 H27f: 5.30894e-05

H29f: 2.35089e-06 H31f: 1.87629e-06 H33f: 1.32357e-06 c1sd = 0.291

c1ed = 1.5254c2sd = 0.3719

c2ed = -0.0706

c3sd = 0.6468

c3ed = 0.0416c4sd = 0.7293

c4ed = 0.0

varx = 5.8996%.

AEXC20 - 28/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.28 Actual Amplitude: 0.28

Actual Power: 0.0783998 Distortion 2H-20H: 0.00616868%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 15.6548 delta: 1.2793 end: 16.9341 P2 start: 31.381 end: 33.8436 delta: 2 4626

P3 start: 47.2364 end: 50.6936 delta: 3.4572 P4 start: 63.2684 end: 67.4465 delta: 4.1781

end: 84.0607

P5 start: 79.5029

delta: 4.5578

H3: 2.40322e-05 H5: 1.40399e-05

H21: -0.9365 H7: 1.6727e-05 H23: 0.874149 H9: 2.49658e-05 H25: 0.0604359 H11: 1.46361e-05 H27: 0.00164997 H13: 1.78052e-05 H29: 8.03586e-05

H19: 3.06988e-05

H15: 2.40141e-05 H31: 6.63085e-05 H17: 8.78487e-06 H33: 4.68652e-05

H19f: 1.61573e-06

H21f: -0.0445952 H23f: 0.0380065

H25f: 0.00241744 H27f: 6.111e-05

H29f: 2.77099e-06 H31f: 2.13899e-06

H33f: 1.42016e-06

c1sd = 0.2843

c1ed = 1.5636

c2sd = 0.3602c2ed = -0.0756

c3sd = 0.6322

c3ed = 0.0378c4sd = 0.7149

c4ed = 0.0

varx = 5.8594%.

AEXC20 - 29/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.29
Actual Amplitude: 0.29
Actual Power: 0.0841

Distortion 2H-20H: 0.00664658% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H13: 2.22842e-05

H15: 2.4477e-05

H17: 7.69686e-06

P1 start: 15.6273 end: 16.9515 delta: 1.3241
P2 start: 31.329 end: 33.8785 delta: 2.5494
P3 start: 47.1653 end: 50.7456 delta: 3.5802
P4 start: 63.186 end: 67.5141 delta: 4.3281
P5 start: 79.4179 end: 84.1402 delta: 4.7223

H3: 3.06181e-05 H19: 2.953e-05 H5: 1.33463e-05 H21: -0.931943 H7: 1.5739e-05 H23: 0.865256 H9: 2.96586e-05 H25: 0.0645181 H11: 1.21568e-05 H27: 0.0018882

> H29: 8.50503e-05 H31: 7.74189e-05

H31: 7.74189e-05 H H33: 4.1522e-05 H

H19f: 1.55421e-06 H21f: -0.0443782

H23f: 0.0376198 H25f: 0.00258073 H27f: 6.99334e-05

H29f: 2.93277e-06 H31f: 2.49739e-06 H33f: 1.25824e-06 c1sd = 0.2775

c1ed = 1.6016c2sd = 0.3483

c2ed = -0.0807c3sd = 0.6171

c3ed = 0.0338

c4sd = 0.7c4ed = 0.0

varx = 5.8178%.

AEXC20 - 30/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.3
Actual Amplitude: 0.3
Actual Power: 0.09

Distortion 2H-20H: 0.00426631% First strong harmonics: 19 and 21

Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 15.6004 end: 16.9692 delta: 1.3688
P2 start: 31.2771 end: 33.9132 delta: 2.6361
P3 start: 47.0942 end: 50.7973 delta: 3.7031
P4 start: 63.1034 end: 67.5816 delta: 4.4782
P5 start: 79.3326 end: 84.2197 delta: 4.8871

H3: 1.48409e-05 H19: 1.58705e-05 H19f: 8.35291e-07 H5: 1.13331e-05 H21: -0.927165 H21f: -0.0441507 H7: 1.25039e-05 H23: 0.856159 H23f: 0.0372243 H9: 1.95911e-05 H25f: 0.00274614 H25: 0.0686535 H11: 8.21002e-06 H27: 0.00214187 H27f: 7.93285e-05 H13: 1.7416e-05 H29: 7.56206e-05 H29f: 2.60761e-06 H31: 5.47884e-05 H31f: 1.76737e-06 H15: 1.6443e-05 H17: 6.19032e-06 H33: 2.92142e-05 H33f: 8.85279e-07 c1sd = 0.2713 c1ed = 1.64 c2sd = 0.3364 c2ed = -0.086 c3sd = 0.6018 c3ed = 0.0297 c4sd = 0.6849 c4ed = 0.0 varx = 5.7749%.

AEXC20 - 31/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.31 Actual Amplitude: 0.31 Actual Power: 0.0961 Distortion 2H-20H:

0.00277412% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 6.71066e-06

P1 start: 15.5732 delta: 1.4133 end: 16.9865 P2 start: 31.2249 end: 33 9474 delta: 2 7226 P3 start: 47.0226 end: 50.8486 delta: 3.826 end: 67.6487 delta: 4.6284 P4 start: 63.0203 P5 start: 79.2471 end: 84.2992 delta: 5.0521

H3: 9.13956e-06 H19: 1.02305e-05 H19f: 5.38446e-07 H5: 6.46297e-06 H21: -0.922259 H23: 0.846766 H7: 8.14866e-06 H25: 0.0729084 H9: 1.19957e-05 H11: 7.63361e-06 H27: 0.0024241 H13: 1.22028e-05 H29: 6.70863e-05 H15: 8.7805e-06 H31: 3.50315e-05

H33: 2.4251e-05

H21f: -0.0439171 H23f: 0.0368159 H25f: 0.00291633 H27f: 8.97816e-05 H29f: 2.31332e-06 H31f: 1.13005e-06

H33f: 7.34878e-07

c1sd = 0.2646c1ed = 1.678c2sd = 0.3239c2ed = -0.0916c3sd = 0.5858c3ed = 0.0253c4sd = 0.6691c4ed = 0.0varx = 5.7307%.

AEXC20 - 32/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.32
Actual Amplitude: 0.32
Actual Power: 0.1024
Distortion 2H-20H: 0.0051699%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 15.5446 end: 17.0025 delta: 1.4579
P2 start: 31.1718 end: 33.9809 delta: 2.809
P3 start: 46.9503 end: 50.8992 delta: 3.9489
P4 start: 62.9367 end: 67.7153 delta: 4.7787
P5 start: 79.1613 end: 84.3786 delta: 5.2173

H3: 1.73126e-05 H5: 9.77096e-06 H7: 1.2976e-05 H9: 2.73524e-05 H11: 8.99049e-06

H13: 2.31139e-05

H15: 1.9289e-05

H17: 5.0222e-06

H19: 1.86732e-05 H21: -0.917294 H23: 0.837006 H25: 0.0772782 H27: 0.00274697 H29: 9.6025e-05

H31: 7.15533e-05

H33: 3.54877e-05

H21f: -0.0436807 H23f: 0.0363916 H25f: 0.00309113 H27f: 0.00010174

H19f: 9.82799e-07

H29f: 3.31121e-06 H31f: 2.30817e-06 H33f: 1.07538e-06 c1sd = 0.2565 c1ed = 1.7143 c2sd = 0.3103 c2ed = -0.0976 c3sd = 0.5687 c3ed = 0.0208 c4sd = 0.652 c4ed = 0.0

AEXC20 - 33/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.33
Actual Amplitude: 0.33
Actual Power: 0.1089
Distortion 2H-20H: 0.00287478%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 1.04714e-05

H17: 4.22068e-06

P1 start: 15.5174 end: 17.0196 delta: 1.5022
P2 start: 31.119 end: 34.0143 delta: 2.8953
P3 start: 46.878 end: 50.9496 delta: 4.0716
P4 start: 62.8529 end: 67.782 delta: 4.929
P5 start: 79.0753 end: 84.4581 delta: 5.3828

H3: 1.02721e-05 H19: 9.63465e-06 H5: 7.58911e-06 H21: -0.912071 H7: 8.21332e-06 H23: 0.8271 H9: 1.51271e-05 H25: 0.0817036 H11: 5.14303e-06 H27: 0.0030884 H13: 1.09679e-05 H29: 8.82462e-05

H31: 3.99114e-05

H33: 2.00564e-05

H21f: -0.043432 H23f: 0.0359609 H25f: 0.00326814 H27f: 0.000114385

H19f: 5.07087e-07

H29f: 3.04297e-06 H31f: 1.28747e-06 H33f: 6.07771e-07 c1sd = 0.2497 c1ed = 1.7519 c2sd = 0.297 c2ed = -0.1036 c3sd = 0.5516 c3ed = 0.0161 c4sd = 0.6349 c4ed = 0.0

varx = 5.6387%.

AEXC20 - 34/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

P5 start: 78.989

Desired Amplitude: 0.34
Actual Amplitude: 0.34
Actual Power: 0.1156
Distortion 2H-20H: 0.00392361%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 15.4892 end: 17.0356 delta: 1.5465
P2 start: 31.0656 end: 34.047 delta: 2.9814
P3 start: 46.8051 end: 50.9994 delta: 4.1943
P4 start: 62.7686 end: 67.8481 delta: 5.0795

end: 84.5375

H3: 1.41366e-05
H5: 1.03569e-05
H7: 6.76004e-06
H9: 1.91712e-05
H19: 2.09816e-05
H21: -0.906776
H23: 0.816849
H25: 0.0862389

H9: 1.91712e-05 H25: 0.0862389 H11: 4.03805e-06 H27: 0.00347242 H13: 1.17957e-05 H29: 0.000103723 H15: 1.46871e-05 H31: 4.5261e-05

H17: 2.78355e-06 H33: 1.79649e-05

H19f: 1.1043e-06 H21f: -0.0431798

H23f: 0.0355152 H25f: 0.00344956 H27f: 0.000128608 H29f: 3.57665e-06

H31f: 1.46003e-06 H33f: 5.44392e-07 c1sd = 0.2417

delta: 5.5485

c1ed = 1.7882c2sd = 0.2827

c2ed = -0.1101c3sd = 0.5334

c3ed = 0.0111c4sd = 0.6166

c4ed = 0.0

varx = 5.5909%.

AEXC20 - 35/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.35
Actual Amplitude: 0.35
Actual Power: 0.1225
Distortion 2H-20H: 0.00406221%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H13: 1.33935e-05

H15: 1.45132e-05

H17: 7.49982e-06

P1 start: 15.4607 end: 17.0514 delta: 1.5907
P2 start: 31.0119 end: 34.0793 delta: 3.0674
P3 start: 46.7318 end: 51.0487 delta: 4.3169
P4 start: 62.6839 end: 67.914 delta: 5.2301
P5 start: 78.9025 end: 84.6169 delta: 5.7144

H3: 1.5395e-05 H19: 1.70041e-05
H5: 1.16655e-05 H21: -0.901326
H7: 1.31648e-05 H23: 0.806351
H9: 1.67201e-05 H25: 0.0908289
H11: 9.42231e-06 H27: 0.00389315

H21: -0.901326 H21f: -0.0429203 H23: 0.806351 H23f: 0.0350587 H25: 0.0908289 H25f: 0.00363316 H27: 0.00389315 H27f: 0.000144191 H29: 0.000127093 H29f: 4.38252e-06

H31: 4.64299e-05

H33: 3.17559e-05

H31f: 1.49774e-06 H33f: 9.62301e-07

H19f: 8.94955e-07

c1sd = 0.2334 c1ed = 1.8241 c2sd = 0.268 c2ed = -0.1169 c3sd = 0.5147 c3ed = 0.0058 c4sd = 0.5979 c4ed = 0.0

varx = 5.5419%.

AEXC20 - 36/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.36
Actual Amplitude: 0.36
Actual Power: 0.1296
Distortion 2H-20H: 0.00419186%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 1.81436e-05

H17: 5.77863e-06

P1 start: 15.4323 end: 17.067 delta: 1.6347
P2 start: 30.958 end: 34.1112 delta: 3.1532
P3 start: 46.6582 end: 51.0976 delta: 4.4395
P4 start: 62.5988 end: 67.9796 delta: 5.3808
P5 start: 78.8156 end: 84.6962 delta: 5.8806

H3: 1.63728e-05 H19: 1.6199e-05
H5: 1.10885e-05 H21: -0.895717
H7: 1.21667e-05 H23: 0.795614
H9: 1.81061e-05 H25: 0.0954928
H11: 8.93061e-06 H27: 0.00433759
H13: 1.36215e-05 H29: 0.000144309

H31: 4.82479e-05

H33: 3.01009e-05

H21f: -0.0426532 H23f: 0.0345919 H25f: 0.00381971 H27f: 0.000160652

H19f: 8.52577e-07

H29f: 4.97618e-06 H31f: 1.55638e-06 H33f: 9.12148e-07 c1sd = 0.2251 c1ed = 1.8598 c2sd = 0.253 c2ed = -0.1238 c3sd = 0.4954 c3ed = 0.0004 c4sd = 0.5784 c4ed = 0.0

AEXC20 - 37/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.37
Actual Amplitude: 0.37
Actual Power: 0.1369
Distortion 2H-20H: 0.00319173%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 3.88504e-06

P1 start: 15.4041 end: 17.0827 delta: 1.6786
P2 start: 30.904 end: 34.1428 delta: 3.2388
P3 start: 46.5842 end: 51.1461 delta: 4.5619
P4 start: 62.5133 end: 68.0449 delta: 5.5316
P5 start: 78.7286 end: 84.7757 delta: 6.0471

H3: 1.21699e-05 H19: 1.30407e-05 H5: 6.15332e-06 H21: -0.889934 H7: 7.32539e-06 H23: 0.784658 H9: 1.62493e-05 H25: 0.100214 H11: 4.28868e-06 H27: 0.00481147 H13: 1.27169e-05 H29: 0.000148033 H15: 1.22383e-05 H31: 4.23984e-05

H33: 2.01444e-05

H21f: -0.0423778 H23f: 0.0341156 H25f: 0.00400855 H27f: 0.000178203

H19f: 6.86354e-07

H29f: 5.1046e-06 H31f: 1.36769e-06 H33f: 6.10435e-07 c1sd = 0.2169 c1ed = 1.8955 c2sd = 0.2377 c2ed = -0.1308 c3sd = 0.4755 c3ed = -0.0051 c4sd = 0.5582 c4ed = 0.0 varx = 5.4404%

AEXC20 - 38/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.38
Actual Amplitude: 0.38
Actual Power: 0.1444
Distortion 2H-20H: 0.0026

Distortion 2H-20H: 0.00266442% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 1.0465e-05

H17: 1.83266e-06

P1 start: 15.3757 end: 17.098 delta: 1.7223
P2 start: 30.8496 end: 34.1739 delta: 3.3242
P3 start: 46.5098 end: 51.1941 delta: 4.6843
P4 start: 62.4274 end: 68.1098 delta: 5.6824
P5 start: 78.6412 end: 84.8551 delta: 6.2139

H3: 1.10508e-05 H19: 1.24663e-05 H5: 6.23105e-06 H21: -0.884021 H7: 5.07842e-06 H23: 0.773443 H9: 1.31589e-05 H25: 0.105002 H11: 3.4859e-06 H27: 0.00533239 H13: 8.34187e-06 H29: 0.00016331

H31: 3.32941e-05

H33: 1.56018e-05

H21f: -0.0420963 H23f: 0.033628 H25f: 0.00420007 H27f: 0.000197496 H29f: 5.63139e-06

H31f: 1.074e-06

H33f: 4.72783e-07

H19f: 6.56121e-07

c2sd = 0.2218 c2ed = -0.1382 c3sd = 0.4548 c3ed = -0.011 c4sd = 0.5372 c4ed = 0.0 varx = 5.3879%.

c1sd = 0.2084

c1ed = 1.9307

AEXC20 - 39/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.39
Actual Amplitude: 0.39
Actual Power: 0.1521
Distortion 2H-20H: 0.00288855%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 3.68581e-06

P1 start: 15.3467 end: 17.1127 delta: 1.766
P2 start: 30.7948 end: 34.2043 delta: 3.4095
P3 start: 46.4349 end: 51.2415 delta: 4.8065
P4 start: 62.341 end: 68.1745 delta: 5.8335
P5 start: 78.5535 end: 84.9344 delta: 6.381

H3: 9.2107e-06 H19: 9.81155e-06 H19f: 5.16397e-07 H5: 8.6399e-06 H21: -0.877988 H21f: -0.041809 H7: 9.28483e-06 H23: 0.761962 H23f: 0.0331288 H9: 1.31242e-05 H25: 0.109837 H25f: 0.00439349 H11: 5.44858e-06 H27: 0.0059 H27f: 0.000218518 H13: 1.06277e-05 H29: 0.00019529 H29f: 6.73414e-06 H15: 1.28042e-05 H31: 3.72676e-05 H31f: 1.20218e-06

H33: 2.09924e-05

c1sd = 0.1992 c1ed = 1.9652 c2sd = 0.2052 c2ed = -0.1461 c3sd = 0.4335 c3ed = -0.0171 c4sd = 0.5154 c4ed = 0.0 varx = 5.3343%

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H33f: 6.36133e-07

AEXC20 - 40/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.4

Actual Amplitude: 0.400001 Actual Power: 0.160001

Distortion 2H-20H: 0.000314818% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 15.3186 end: 17.128 delta: 1.8094

P2 start: 30.7402 end: 34 2347 delta: 3 4946 P3 start: 46.3598 end: 51.2885 delta: 4.9287 end: 68.2389 P4 start: 62.2543 delta: 5.9846

delta: 6.5484 P5 start: 78.4655 end: 85.0139

H19: 1.39799e-07 H3: -2.52969e-07 H5: 9.1069e-07 H7: 1.16547e-06

H21: -0.871737 H23: 0.750329 H9: 1.66538e-06 H25: 0.114712 H11: 1.00038e-06 H27: 0.00648628 H13: 1.41566e-06 H29: 0.000194071

H15: 1.32809e-06 H31: 7.91346e-06 H17: 3.12492e-07 H33: 3.46108e-06

H19f: 7.35784e-09 H21f: -0.0415113

H23f: 0.032623 H25f: 0.00458848 H27f: 0.000240232

H29f: 6.69211e-06 H31f: 2.55273e-07

H33f: 1.04881e-07

c1sd = 0.1908

c1ed = 2.0003c2sd = 0.1888

c2ed = -0.1538c3sd = 0.4118

c3ed = -0.0234

c4sd = 0.4932c4ed = 0.0

varx = 5.2796%.

AEXC20 - 41/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.41
Actual Amplitude: 0.41
Actual Power: 0.1681

Distortion 2H-20H: 0.00214803% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 15.2889 end: 17.1418 delta: 1.8529
P2 start: 30.6846 end: 34.2641 delta: 3.5795
P3 start: 46.284 end: 51.3347 delta: 5.0508
P4 start: 62.1668 end: 68.3027 delta: 6.1359
P5 start: 78.3771 end: 85.0932 delta: 6.7161

H3: 7.8359e-06 H19: 1.06189e-05 H19f: 5.58889e-07 H5: 5.99724e-06 H21: -0.865458 H21f: -0.0412123 H7: 3.62267e-06 H23: 0.738341 H23f: 0.0321018 H9: 1.02628e-05 H25: 0.119659 H25f: 0.00478638 H11: 3.23084e-06 H27: 0.00714898 H27f: 0.000264777 H13: 8.01626e-06 H29: 0.000238026 H29f: 8.20779e-06 H15: 7.37932e-06 H31: 2.88278e-05 H31f: 9.2993e-07 H17: 1.91633e-06 H33: 1.35011e-05 H33f: 4.09124e-07

c1sd = 0.1807 c1ed = 2.0336 c2sd = 0.1709 c2ed = -0.1623 c3sd = 0.3887 c3ed = -0.03 c4sd = 0.4695 c4ed = 0.0 varx = 5.224%.

AEXC20 - 42/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.42
Actual Amplitude: 0.42
Actual Power: 0.1764
Distortion 2H-20H: 0.00108435%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 4.18003e-06

H17: -7.65288e-07

P1 start: 15.2601 end: 17.1561 delta: 1.8961
P2 start: 30.6291 end: 34.2933 delta: 3.6641
P3 start: 46.2079 end: 51.3806 delta: 5.1727
P4 start: 62.079 end: 68.3663 delta: 6.2873
P5 start: 78.2884 end: 85.1726 delta: 6.8842

H3: 4.2764e-06
H5: 1.77079e-06
H7: 2.78783e-06
H9: 4.75825e-06
H2: 0.00783388
H1: 9.69171e-07
H2: 0.000264161
H29: 0.000264161

H29: 0.000264161 H31: 1.62157e-05 H33: 4.91156e-06 H19f: 3.15337e-07

H23f: 0.0315743 H25f: 0.00498492 H27f: 0.000290144

H29f: 9.10898e-06 H31f: 5.23088e-07 H33f: 1.48835e-07 c1sd = 0.1713

c1ed = 2.0674c2sd = 0.1532

c2ed = -0.1708c3sd = 0.3653

c3ed = -0.0368c4sd = 0.4453

c4ed = 0.0

varx = 5.1672%.

AEXC20 - 43/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.43 Actual Amplitude: 0.43 Actual Power: 0.1849

Distortion 2H-20H: 0.000332993% First strong harmonics: 19 and 21

Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

H17: -3.73745e-07

P1 start: 15.2311 end: 17.1702 delta: 1.9391
P2 start: 30.5734 end: 34.3219 delta: 3.7486
P3 start: 46.1314 end: 51.4259 delta: 5.2945
P4 start: 61.9908 end: 68.4296 delta: 6.4388
P5 start: 78.1994 end: 85.252 delta: 7.0526

H3: -1.00011e-06
H5: -5.29472e-07
H7: -6.30324e-07
H9: -1.76491e-06
H25: 0.129613
H11: -9.94766e-07
H26: 0.000290851
H15: -1.25897e-06
H31: 1.70797e-06

H33: -3.96302e-06

H21f: -0.040587 H23f: 0.0310373 H25f: 0.00518451 H27f: 0.000317438 H29f: 1.00293e-05

H19f: -6.55118e-08

H31f: 5.5096e-08 H33f: -1.20091e-07 c1sd = 0.1618 c1ed = 2.1008 c2sd = 0.1349 c2ed = -0.1796 c3sd = 0.3412 c3ed = -0.0439 c4sd = 0.4204 c4ed = 0.0 varx = 5.1094%.

AEXC20 - 44/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.44
Actual Amplitude: 0.44
Actual Power: 0.1936
Distortion 2H-20H: 0.00193873%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 7.89956e-06

H17: 2.47559e-06

P1 start: 15.2008 end: 17.183 delta: 1.9821
P2 start: 30.5168 end: 34.3496 delta: 3.8329
P3 start: 46.0542 end: 51.4704 delta: 5.4163
P4 start: 61.9018 end: 68.4922 delta: 6.5904
P5 start: 78.1099 end: 85.3314 delta: 7.2215

H3: 8.68147e-06 H19: 8.76922e-06 H5: 6.65771e-06 H21: -0.84564 H7: 3.89311e-06 H23: 0.701192 H9: 7.76158e-06 H25: 0.134651 H11: 2.24223e-06 H27: 0.00938032 H13: 5.50608e-06 H29: 0.000355213

H31: 2.61724e-05 H33: 1.01449e-05 H19f: 4.61538e-07

H23f: 0.0304866 H25f: 0.00538605 H27f: 0.000347419

H29f: 1.22487e-05 H31f: 8.4427e-07 H33f: 3.07422e-07 c1sd = 0.1507

c1ed = 2.1328c2sd = 0.1154

c2ed = -0.189 c3sd = 0.3158c3ed = -0.0512

c4sd = 0.394c4ed = 0.0

varx = 5.0507%.

AEXC20 - 45/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.45
Actual Amplitude: 0.45
Actual Power: 0.2025
Distortion 2H-20H: 0.0027511%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 9.4667e-06 H17: 1.86503e-06 P1 start: 15.1708 end: 17.1958 delta: 2.0249
P2 start: 30.4601 end: 34.3771 delta: 3.9169
P3 start: 45.9765 end: 51.5144 delta: 5.5379
P4 start: 61.8124 end: 68.5546 delta: 6.7421
P5 start: 78.0201 end: 85.4108 delta: 7.3907

H3: 9.83772e-06 H19: 1.29237e-05 H5: 8.46606e-06 H21:-0.838779 H7: 3.95115e-06 H23: 0.688353 H9: 1.27609e-05 H25: 0.139696 H11: 7.92639e-06 H27: 0.0102261 H13: 9.32746e-06 H29: 0.000406811

H31: 3.78204e-05 H33: 2.52919e-05 H21f: -0.0399419 H23f: 0.0299284 H25f: 0.00558785 H27f: 0.000378743

H19f: 6.80193e-07

H29f: 1.4028e-05 H31f: 1.22001e-06 H33f: 7.66421e-07 c1sd = 0.1398 c1ed = 2.1647c2sd = 0.0957

c2ed = -0.1985 c3sd = 0.2898c3ed = -0.0589

c4sd = 0.3669c4ed = 0.0

varx = 4.9911%.

AEXC20 - 46/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.46
Actual Amplitude: 0.459999
Actual Power: 0.211599
Distortion 2H-20H: 0.000901462%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 15.1416 end: 17.2091 delta: 2.0674
P2 start: 30.4035 end: 34.4042 delta: 4.0006
P3 start: 45.8987 end: 51.558 delta: 5.6593
P4 start: 61.7226 end: 68.6167 delta: 6.8941
P5 start: 77.9299 end: 85.4902 delta: 7.5603

H3: 2.96965e-06 H19: 3.16068e-06 H19f: 1.66352e-07 H5: 2.47471e-06 H21: -0.831717 H21f: -0.0396056 H7: 1.1313e-06 H23: 0.675385 H23f: 0.0293646 H9: 4.72945e-06 H25: 0.144741 H25f: 0.00578962 H11: 2.5497e-06 H27: 0.0111087 H27f: 0.000411434 H13: 1.87824e-06 H29: 0.000446455 H29f: 1.5395e-05 H15: 4.74044e-06 H31f: 6.1357e-07 H31: 1.90207e-05 H33f: 2.00431e-07 H17: 4.27009e-07 H33: 6.61422e-06

c1sd = 0.1296 c1ed = 2.1971 c2sd = 0.0759 c2ed = -0.2082 c3sd = 0.2634 c3ed = -0.0667 c4sd = 0.3392 c4ed = 0.0 varx = 4.9304%.

AEXC20 - 47/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.47 Actual Amplitude: 0.47 Actual Power: 0.2209

Distortion 2H-20H: 0.000759371% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 3.36935e-06

H17: 1.29176e-06

P1 start: 15.1116 end: 17.2215 delta: 2.1099 P2 start: 30.3464 end: 34 4305 delta: 4 0842 P3 start: 45.8202 end: 51.6008 delta: 5.7806 delta: 7.0462 P4 start: 61.6321 end: 68.6782 end: 85.5697 delta: 7.7304 P5 start: 77.8393

H3: 1.93764e-06 H19: 1.88665e-06 H5: 2.06682e-06 H21: -0.824565 H7: 1.82231e-06 H23: 0.662159 H9: 3.71382e-06 H25: 0.149799 H11: 2.12847e-06 H27: 0.0120606 H13: 3.37846e-06

H29: 0.000505731 H31: 2.25329e-05

H33: 6.94812e-06

H19f: 9.92975e-08 H21f: -0.039265 H23f: 0.0287895 H25f: 0.00599194

H27f: 0.000446688 H29f: 1.7439e-05 H31f: 7.26868e-07

H33f: 2.10549e-07

c1sd = 0.1185

c1ed = 2.2284c2sd = 0.0552

c2ed = -0.2183c3sd = 0.236

c3ed = -0.0749c4sd = 0.3103

c4ed = 0.0

varx = 4.8689%.

AEXC20 - 48/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.48
Actual Amplitude: 0.48
Actual Power: 0.2304

Distortion 2H-20H: 0.000635107% First strong harmonics: 19 and 21

Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

H17: 7.44029e-08

P1 start: 15.0816 end: 17.2337 delta: 2.1521
P2 start: 30.2889 end: 34.4564 delta: 4.1675
P3 start: 45.7413 end: 51.643 delta: 5.9017
P4 start: 61.541 end: 68.7393 delta: 7.1984
P5 start: 77.7482 end: 85.6491 delta: 7.9009

H3: 2.5824e-06 H19: 1.98049e-06 H19f: 1.04236e-07 H5: 1.6443e-06 H21: -0.817274 H21f: -0.0389178 H7: 0.0 H23: 0.648743 H23f: 0.0282062 H9: 3.95266e-06 H25f: 0.00619444 H25: 0.154861 H11: 1.73917e-06 H27: 0.0130668 H27f: 0.000483954 H13: 2.24997e-06 H29: 0.000568163 H29f: 1.95918e-05 H15: 1.82349e-06 H31f: 7.08105e-07 H31: 2.19513e-05

H33: 4.3072e-06

c1sd = 0.1072 c1ed = 2.2593 c2sd = 0.0339 c2ed = -0.2287 c3sd = 0.2076 c3ed = -0.0833 c4sd = 0.2803 c4ed = 0.0 varx = 4.8064%

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H33f: 1.30521e-07

AEXC20 - 49/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.49
Actual Amplitude: 0.49
Actual Power: 0.2401

Distortion 2H-20H: 0.000426783%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

P1 start: 15.0514 end: 17.2456 delta: 2.1942
P2 start: 30.2311 end: 34.4815 delta: 4.2505
P3 start: 45.6618 end: 51.6844 delta: 6.0227
P4 start: 61.4493 end: 68.8 delta: 7.3507
P5 start: 77.6566 end: 85.7286 delta: 8.0719

H3: 1.5488e-06 H19: 2.18462e-06 H19f: 1.1498e-07 H5: 1.61075e-06 H21: -0.809852 H21f: -0.0385644 H7: 9.07152e-07 H23: 0.635131 H23f: 0.0276144 H9: 1.91018e-06 H25: 0.159915 H25f: 0.00639659 H11: 6.89918e-07 H27: 0.0141342 H27f: 0.00052349 H13: 1.29861e-06 H29: 0.00064189 H29f: 2.21341e-05 H15: 1.23904e-06 H31: 2.20029e-05 H31f: 7.09771e-07 H17: 5.28413e-07 H33: 1.04192e-06 H33f: 3.15732e-08 c1sd = 0.0955 c1ed = 2.2897 c2sd = 0.012 c2ed = -0.2394 c3sd = 0.1783 c3ed = -0.0921 c4sd = 0.2493 c4ed = 0.0 varx = 4.7432%.

AEXC20 - 50/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.5
Actual Amplitude: 0.5
Actual Power: 0.25

Distortion 2H-20H: 0.000174273%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 15.021 end: 17.2571 delta: 2.2361

P2 start: 30.1729 end: 34.5061 delta: 4.3332 P3 start: 45.5818 end: 51.7252 delta: 6.1435 P4 start: 61.357 end: 68.8602 delta: 7.5032

P5 start: 77.5646 end: 85.8081 delta: 8.2435

H3: -5.0594e-08 H19: -1.43793e-07 H5: 9.10691e-07 H21: -0.802295 H7: 5.85444e-07 H23: 0.621337 H9: 7.08316e-07 H25: 0.164951

H11: 7.86506e-07 H27: 0.0152594 H13: 6.42154e-07 H29: 0.00072132 H15: 2.02376e-07 H31: 2.23952e-05

H17: 5.17844e-07 H33: -6.94517e-07

H19f: -7.56807e-09

H21f: -0.0382045 H23f: 0.0270146

H25f: 0.00659805 H27f: 0.000565164 H29f: 2.48731e-05

H31f: 7.22425e-07 H33f: -2.1046e-08 c1sd = 0.0836

c1ed = 0.0836

c2sd = -0.0104

c2ed = -0.2505c3sd = 0.1482

c3ed = -0.1012c4sd = 0.2172

c4sa = 0.21c4ed = 0.0

varx = 4.6791%.

AEXC20 - 51/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.51
Actual Amplitude: 0.51
Actual Power: 0.2601

Distortion 2H-20H: 0.00163693% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 1.78567e-06

P1 start: 14.99 end: 17.2678 delta: 2.2779
P2 start: 30.1142 end: 34.5299 delta: 4.4157
P3 start: 45.5011 end: 51.7652 delta: 6.2641
P4 start: 61.2639 end: 68.9198 delta: 7.6559
P5 start: 77.4721 end: 85.8876 delta: 8.4155

H3: 5.85303e-06 H19: 7.14268e-06
H5: 5.71415e-06 H21: -0.794647
H7: 3.27373e-06 H23: 0.607313
H9: 8.05205e-06 H25: 0.169975
H11: 2.61087e-06 H27: 0.0164585
H13: 5.29978e-06 H29: 0.000825098
H15: 6.0316e-06 H31: 4.1608e-05

H33: 8.95541e-06

H21f: -0.0378403 H23f: 0.0264049 H25f: 0.00679901 H27f: 0.000609575 H29f: 2.84516e-05

H31f: 1.3422e-06

H33f: 2.71376e-07

H19f: 3.75931e-07

c2sd = -0.0339 c2ed = -0.262 c3sd = 0.1168 c3ed = -0.1105 c4sd = 0.1837 c4ed = 0.0 varx = 4.6142%.

c1sd = 0.0708c1ed = 2.3487

AEXC20 - 52/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.52 Actual Amplitude: 0.52 Actual Power: 0.2704

Distortion 2H-20H: 5.00598e-05% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 14.9598 end: 17.2791 delta: 2.3193
P2 start: 30.0556 end: 34.5534 delta: 4.4978
P3 start: 45.4201 end: 51.8046 delta: 6.3845
P4 start: 61.1703 end: 68.9791 delta: 7.8087
P5 start: 77.3791 end: 85.9671 delta: 8.5881

H3: 0.0 H5: -1.75133e-07 H7: 2.5019e-07 H9: -2.75672e-07 H11: -7.9606e-08 H13: 1.12265e-08 H15: -2.33511e-07

H17: 1.20189e-07

H19: -7.68128e-08 H21: -0.786797 H23: 0.593199 H25: 0.174962 H27: 0.0177005

H27: 0.0177005 H29: 0.000907658 H31: 2.82473e-05 H33: -4.07759e-06 H19f: -4.04278e-09 H21f: -0.0374665

H23f: 0.0257912 H25f: 0.00699847 H27f: 0.000655574

H29f: 3.12985e-05 H31f: 9.11202e-07 H33f: -1.23563e-07 c1sd = 0.0587

c1ed = 2.3781

c2sd = -0.0574c2ed = -0.2736

c3sd = 0.0849

c3ed = -0.1202c4sd = 0.1494

c4ed = 0.0

varx = 4.5485%.

AEXC20 - 53/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.53
Actual Amplitude: 0.53
Actual Power: 0.2809

Distortion 2H-20H: 0.000220117% First strong harmonics: 19 and 21

Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

H15: -1.14552e-06

H17: 3.36919e-08

P1 start: 14.9289 end: 17.2896 delta: 2.3606
P2 start: 29.9965 end: 34.5761 delta: 4.5797
P3 start: 45.3384 end: 51.8431 delta: 6.5047
P4 start: 61.076 end: 69.0377 delta: 7.9617
P5 start: 77.2855 end: 86.0467 delta: 8.7612

H3: 1.43191e-07
H5: -9.1642e-07
H7: -4.09116e-08
H21: -0.778851
H7: -4.09779e-06
H25: 0.179918
H11: -6.50866e-07
H27: 0.0190193
H13: -5.94792e-07
H29: 0.00101443

H21f: -0.0370881 H23f: 0.0251684 H25f: 0.00719674 H27f: 0.00070442 H29f: 3.49802e-05

H19f: -4.36315e-08

H31: 3.09107e-05 H31f: 9.97119e-07 H33: -7.45025e-06 H33f: -2.25765e-07 c1sd = 0.0459 c1ed = 2.4065 c2sd = -0.0818 c2ed = -0.2856 c3sd = 0.0518 c3ed = -0.1302 c4sd = 0.1137 c4ed = 0.0 varx = 4.4822%

AEXC20 - 54/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.54
Actual Amplitude: 0.54
Actual Power: 0.2916

Distortion 2H-20H: 0.000247741% First strong harmonics: 19 and 21

Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

H17: -3.80282e-07

P1 start: 14.8979 end: 17.2996 delta: 2.4017
P2 start: 29.9369 end: 34.5981 delta: 4.6612
P3 start: 45.2562 end: 51.8808 delta: 6.6247
P4 start: 60.9809 end: 69.0957 delta: 8.1148
P5 start: 77.1913 end: 86.1263 delta: 8.935

H3: -4.68463e-07 H19: -3.40252e-07 H19f: -1.7908e-08 H5: 1.12431e-07 H21: -0.77078 H21f: -0.0367038 H7: -1.28493e-06 H23: 0.564376 H23f: 0.0245381 H9: -6.71464e-07 H25: 0.184834 H25f: 0.00739337 H11: -1.32873e-06 H27: 0.0204056 H27f: 0.000755762 H13: -9.29719e-07 H29: 0.00113378 H29f: 3.90957e-05 H15: -9.55664e-07 H31: 3.5579e-05 H31f: 1.14771e-06

H33: -9.83772e-06

c1sd = 0.0326 c1ed = 2.4343 c2sd = -0.107 c2ed = -0.298 c3sd = 0.0176 c3ed = -0.1406 c4sd = 0.0766 c4ed = 0.0 varx = 4.4151%.

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H33f: -2.98113e-07

AEXC20 - 55/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

P1 start: 14.8666

Desired Amplitude: 0.55 Actual Amplitude: 0.55 Actual Power: 0.3025

Distortion 2H-20H: 0.000169999%

Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

H15: -5.51934e-07

H17: 2.92201e-07

First strong harmonics: 19 and 21

P2 start: 29.877 end: 34.6193 delta: 4.7424
P3 start: 45.1733 end: 51.9177 delta: 6.7444
P4 start: 60.885 end: 69.1532 delta: 8.2681
P5 start: 77.0965 end: 86.2059 delta: 9.1094

end: 17.3092

H3: -1.83978e-07 H19: -5.22885e-07 H5: -6.07128e-07 H21: -0.762585 H7: 2.16831e-07 H23: 0.549717 H9: -1.19586e-06 H25: 0.189699 H11: -4.39039e-07 H27: 0.0218631 H13: -3.92723e-07 H29: 0.00126585

H29: 0.00126585 H31: 4.35227e-05

H33: -9.30344e-06

H19f: -2.75203e-08 H21f: -0.0363136

H23f: 0.0239007 H25f: 0.00758798 H27f: 0.000809743 H29f: 4.36501e-05

H31f: 1.40396e-06 H33f: -2.81922e-07 c1sd = 0.0189

delta: 2.4426

c1ed = 2.4616c2sd = -0.1329

c2ed = -0.3108c3sd = -0.0177

c3ed = -0.1513c4sd = 0.0382

c4ed = 0.0

varx = 4.3473%.

AEXC20 - 56/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

P5 start: 77.0011

Desired Amplitude: 0.56
Actual Amplitude: 0.56
Actual Power: 0.3136
Distortion 2H-20H: 0.00018153%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 3.79455e-07

H17: 4.46418e-07

P1 start: 14.8351 end: 17.3184 delta: 2.4833
P2 start: 29.8166 end: 34.6399 delta: 4.8232
P3 start: 45.0898 end: 51.9537 delta: 6.8639
P4 start: 60.7884 end: 69.21 delta: 8.4216

end: 86 2856

H3: 4.96905e-07
H5: 3.79455e-07
H7: 8.90558e-07
H9: 7.67945e-07
H21: -0.754269
H7: 8.90558e-07
H23: 0.534894
H9: 7.67945e-07
H25: 0.19451
H11: 7.51518e-07
H27: 0.023393
H13: 6.15051e-07
H29: 0.00141237

H31: 5.47237e-05

H33: -6.56654e-06

H19f: 2.55272e-08 H21f: -0.0359176 H23f: 0.0232563 H25f: 0.00778038

H27f: 0.000866409

H29f: 4.87023e-05 H31f: 1.76528e-06 H33f: -1.98986e-07 c1sd = 0.0048 c1ed = 2.4881 c2sd = -0.1596 c2ed = -0.3239 c3sd = -0.0541 c3ed = -0.1623 c4sd = -0.0016

varx = 4.2789%.

delta: 9.2845

AEXC20 - 57/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.57
Actual Amplitude: 0.57
Actual Power: 0.3249
Distortion 2H-20H: 9.9920

Distortion 2H-20H: 9.99204e-05% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 1.72302e-07

P1 start: 14.8035 end: 17.3273 delta: 2.5238
P2 start: 29.756 end: 34.6597 delta: 4.9037
P3 start: 45.0058 end: 51.9889 delta: 6.9831
P4 start: 60.691 end: 69.2662 delta: 8.5752
P5 start: 76.905 end: 86.3653 delta: 9.4603

H3: 1.77523e-07 H19: 4.20449e-08 H
H5: 4.79312e-07 H21: -0.745816 H
H7: -7.60812e-08 H23: 0.519935 H
H9: 7.24885e-07 H25: 0.199256 H
H11: 2.5418e-07 H27: 0.024993 H
H3: 3.07251e-07 H29: 0.00156832 H
H5: 1.24266e-07 H31: 6.17436e-05

H33: -1.01955e-05

c1sd = -0.0095H19f: 2.21289e-09 c1ed = 2.5143H21f: -0.0355151 H23f: 0.0226059 c2sd = -0.1869H25f: 0.00797024 c2ed = -0.3374c3sd = -0.0917H27f: 0.000925666 H29f: 5.40801e-05 c3ed = -0.1737H31f: 1.99173e-06 c4sd = -0.0429H33f: -3.08953e-07 c4ed = 0.0varx = 4.2099%.

AEXC20 - 58/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.58
Actual Amplitude: 0.58
Actual Power: 0.3364

Distortion 2H-20H: 0.000384119% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 1.07756e-06

P1 start: 14.7717 end: 17.3357 delta: 2.564
P2 start: 29.6949 end: 34.6787 delta: 4.9838
P3 start: 44.921 end: 52.023 delta: 7.102
P4 start: 60.5927 end: 69.3216 delta: 8.729
P5 start: 76.8082 end: 86.4451 delta: 9.6369

H3: 8.7231e-07 H19: 1.08809e-06
H5: 1.77951e-06 H21: -0.737247
H7: 6.16848e-07 H23: 0.504822
H9: 1.70101e-06 H25: 0.203931
H11: 5.47176e-07 H27: 0.02667
H13: 1.40912e-06 H29: 0.00174173
H15: 1.70973e-06 H31: 7.36793e-05

H33: -1.07294e-05

H19f: 5.7268e-08 H21f: -0.035107 H23f: 0.0219488 H25f: 0.00815722 H27f: 0.000987778

H29f: 6.00598e-05 H31f: 2.37675e-06 H33f: -3.25134e-07 c1sd = -0.0244 c1ed = 2.5397 c2sd = -0.2152 c2ed = -0.3512 c3sd = -0.1305 c3ed = -0.1855 c4sd = -0.0857 c4ed = 0.0 varx = 4.1404%.

AEXC20 - 59/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.59
Actual Amplitude: 0.59
Actual Power: 0.3481

Distortion 2H-20H: 7.27014e-05% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 14.7399 end: 17.3439 delta: 2.604
P2 start: 29.6335 end: 34.6971 delta: 5.0636
P3 start: 44.8356 end: 52.0562 delta: 7.2206
P4 start: 60.4935 end: 69.3764 delta: 8.8829
P5 start: 76.7107 end: 86.5249 delta: 9.8142

H3: -1.71505e-07 H5: 3.60161e-07 H7: -2.57258e-07 H9: 1.00045e-07 H11: -3.15725e-07 H13: -2.96836e-08

H15: 1.88656e-07

H17: -3.48054e-07

H19: 1.89558e-07 H21: -0.728539 H23: 0.489589 H25: 0.208528 H27: 0.0284193 H29: 0.00192373

H31: 8.03349e-05

H33: -1.70687e-05

H21f: -0.0346923 H23f: 0.0212865 H25f: 0.00834111 H27f: 0.00105257 H29f: 6.63354e-05

H31f: 2.59145e-06

H33f: -5.17232e-07

H19f: 9.97675e-09

c1ed = 2.5647 c2sd = -0.2441 c2ed = -0.3653 c3sd = -0.1706 c3ed = -0.1976 c4sd = -0.1301 c4ed = 0.0 varx = 4.0702%

c1sd = -0.0393

AEXC20 - 60/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.6
Actual Amplitude: 0.6
Actual Power: 0.36

Distortion 2H-20H: 0.000125591%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 1.51782e-07

H17: -7.44029e-08

P1 start: 14.7078 end: 17.3515 delta: 2.6438
P2 start: 29.5716 end: 34.7145 delta: 5.1429
P3 start: 44.7495 end: 52.0884 delta: 7.3389
P4 start: 60.3934 end: 69.4304 delta: 9.0371
P5 start: 76.6123 end: 86.6047 delta: 9.9923

H3: 3.79455e-07 H19: 5.59197e-07 H5: 2.5297e-07 H21: -0.719719 H7: 1.26485e-07 H23: 0.474209 H9: 9.41611e-07 H25: 0.213036 H11: 1.26485e-07 H27: 0.0302501 H13: 3.30807e-07 H29: 0.00212665

H31: 9.3452e-05

H33: -1.89842e-05

H21f: -0.0342723 H23f: 0.0206178 H25f: 0.00852146 H27f: 0.00112038 H29f: 7.33327e-05

H19f: 2.94314e-08

H31f: 3.01458e-06 H33f: -5.7528e-07 c1sd = -0.0549 c1ed = 2.5888 c2sd = -0.274 c2ed = -0.3799 c3sd = -0.212 c3ed = -0.2101 c4sd = -0.1762 c4ed = 0.0 varx = 3.9996%.

AEXC20 - 61/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.61 Actual Amplitude: 0.61 Actual Power: 0.3721 Distortion 2H-20H: 9.9374e-05%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20

Total switching events: 40 Delta Friendly: No

H15: 6.96704e-07

H17: -1.46366e-08

P1 start: 14.6755 end: 17.3588 delta: 2.6832 P2 start: 29.5094 end: 34 7312 delta: 5 2218 delta: 7.4569 P3 start: 44.6627 end: 52.1196 end: 69.4836 delta: 9.1913 P4 start: 60.2923 P5 start: 76.5132 end: 86.6846 delta: 10.1714

H3: 8.2941e-08 H19: -1.96439e-07 H5: 9.95291e-08 H7: -1.42185e-07 H9: 5.9441e-07 H11: -2.48823e-07 H13: -1.05271e-07

H21: -0.71077 H23: 0.458707 H25: 0.217451 H27: 0.0321592 H29: 0.00234624

H31: 0.000106059 H33: -2.42829e-05

H19f: -1.03389e-08 H21f: -0.0338462

H23f: 0.0199438 H25f: 0.00869803 H27f: 0.00119108 H29f: 8.09047e-05

H31f: 3.42125e-06 H33f: -7.35844e-07 c1sd = -0.0709

c1ed = 2.6123

c2sd = -0.3047c2ed = -0.3947

c3sd = -0.2547

c3ed = -0.223c4sd = -0.2241

c4ed = 0.0

varx = 3.9285%.

AEXC20 - 62/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.62 Actual Amplitude: 0.62 Actual Power: 0.3844

Distortion 2H-20H: 4.50656e-05% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H13: 2.25978e-07

H15: -8.16032e-08

H17: -2.88011e-08

P1 start: 14.6431 end: 17.3656 delta: 2.7225
P2 start: 29.4467 end: 34.747 delta: 5.3003
P3 start: 44.5751 end: 52.1496 delta: 7.5745
P4 start: 60.1902 end: 69.536 delta: 9.3458
P5 start: 76.4132 end: 86.7645 delta: 10.3513

H19f: -1.49191e-08

H21f: -0.0334142

H23f: 0.0192645

H3: -4.08016e-08 H19: -2.83464e-07 H5: -2.20329e-07 H21: -0.701699 H7: 6.99456e-08 H23: 0.443084 H9: -6.80027e-08 H25: 0.221762 H11: 6.67663e-08 H27: 0.0341505

H25: 0.221762 H25f: 0.00887047 H27: 0.0341505 H27f: 0.00126483 H29: 0.00258283 H29f: 8.90631e-05 H31: 0.000120841 H31f: 3.8981e-06 H33: -2 9418e-05 H33f: -8 91453e-07 c1sd = -0.0873 c1ed = 2.6352 c2sd = -0.3364 c2ed = -0.4099 c3sd = -0.2989 c3ed = -0.2364 c4sd = -0.2738

varx = 3.857%.

AEXC20 - 63/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.63
Actual Amplitude: 0.63
Actual Power: 0.3969

Distortion 2H-20H: 6.18387e-05% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 6.42464e-08

H17: -2.8344e-07

P1 start: 14.6105 end: 17.3719 delta: 2.7614
P2 start: 29.3836 end: 34.7619 delta: 5.3783
P3 start: 44.4868 end: 52.1784 delta: 7.6916
P4 start: 60.0871 end: 69.5874 delta: 9.5004
P5 start: 76.3122 end: 86.8445 delta: 10.5323

H3: 8.03079e-08 H19: 2.02883e-07 H5: 4.81848e-08 **H21: -0.692507** H7: -2.75342e-07 **H23: 0.427341** H9: 5.35386e-08 H25: 0.225963 H11: -2.40924e-07 H27: 0.0362253 H13: -3.33587e-07 H29: 0.00284181

H31: 0.000137645

H33: -3.6489e-05

H21f: -0.0329765 H23f: 0.01858 H25f: 0.00903853 H27f: 0.00134168 H29f: 9.79934e-05 H31f: 4.44017e-06

H33f: -1.10573e-06

H19f: 1.06781e-08

c1sd = -0.1042 c1ed = 2.6573 c2sd = -0.369 c2ed = -0.4255 c3sd = -0.3446 c3ed = -0.2501 c4sd = -0.3255 c4ed = 0.0 varx = 3.7851%.

AEXC20 - 64/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.64 Actual Amplitude: 0.64 Actual Power: 0.4096

Distortion 2H-20H: 0.000202004% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 14.5777 delta: 2.8001 end: 17.3778 P2 start: 29.32 end: 34.7758 delta: 5.4558 delta: 7.8084 P3 start: 44.3977 end: 52.2061 end: 69.6379 delta: 9.6551 P4 start: 59.9828 P5 start: 76.2102 end: 86.9245 delta: 10.7143

H3: -3.95266e-08 H19: -7.2396e-07 H5: -7.35194e-07 H21: -0.683191 H7: 2.54099e-07 H9: -1.37025e-06

H23: 0.411493 H25: 0.230043 H11: -3.55739e-07 H27: 0.0383844 H13: -1.8243e-07 H29: 0.00311787 H15: -9.48637e-07 H31: 0.000156215 H17: 1.11604e-07 H33: -4.38889e-05

H19f: -3.81032e-08 H21f: -0.0325329

H23f: 0.017891 H25f: 0.00920172 H27f: 0.00142164 H29f: 0.000107513 H31f: 5.0392e-06

H33f: -1.32997e-06

c1sd = -0.1215

c1ed = 2.6786c2sd = -0.4027

c2ed = -0.4415c3sd = -0.3919

c3ed = -0.2643c4sd = -0.3793

c4ed = 0.0

varx = 3.7128%.

AEXC20 - 65/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.65
Actual Amplitude: 0.65
Actual Power: 0.4225

Distortion 2H-20H: 0.000108893%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20 Total switching events: 40

Delta Friendly: No

H15: 2.80213e-07

H17: -5.49437e-08

P1 start: 14.5445 end: 17.383 delta: 2.8385
P2 start: 29.2559 end: 34.7888 delta: 5.5329
P3 start: 44.3078 end: 52.2325 delta: 7.9247
P4 start: 59.8774 end: 69.6874 delta: 9.81
P5 start: 76.1072 end: 87.0047 delta: 10.8974

H3: 3.11348e-07 H19: 3.07251e-07 H5: 5.37075e-07 H21: -0.67376 H7: 8.33967e-08 H23: 0.395528 H9: 7.00532e-07 H25: 0.233996 H11: -6.36848e-08 H27: 0.0406308 H13: 3.50266e-07 H29: 0.00342372

H31: 0.000180609

H33: -5.09478e-05

H21f: -0.0320838 H23f: 0.0171969 H25f: 0.00935983 H27f: 0.00150484

H19f: 1.61711e-08

H29f: 0.000118059 H31f: 5.82611e-06 H33f: -1.54387e-06 c1sd = -0.1395 c1ed = 2.699 c2sd = -0.4375 c2ed = -0.4578 c3sd = -0.4409 c3ed = -0.2789 c4sd = -0.4353

c4ed = 0.0varx = 3.6402%.

AEXC20 - 66/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.66
Actual Amplitude: 0.66
Actual Power: 0.4356

Distortion 2H-20H: 0.000102869% First strong harmonics: 19 and 21

Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

H15: 5.97929e-07

H17: -1.75861e-07

P1 start: 14.5113 end: 17.3879 delta: 2.8766
P2 start: 29.1914 end: 34.8008 delta: 5.6094
P3 start: 44.217 end: 52.2575 delta: 8.0405
P4 start: 59.7707 end: 69.7358 delta: 9.965
P5 start: 76.0031 end: 87.0848 delta: 11.0818

H3: 1.14986e-07 H19: 3.14699e-07 H5: 2.75967e-07 H21: -0.664201 H7: -4.92799e-08 H23: 0.379471 H9: 4.0884e-07 H25: 0.237811 H11: 4.39039e-07 H27: 0.042964 H13: 3.44959e-07 H29: 0.00374945

H29: 0.00374945 H31: 0.000204984

H33: -6.10891e-05

H27f: 0.00159126 H29f: 0.000129291 H31f: 6.61237e-06

H19f: 1.65631e-08

H21f: -0.0316286

H23f: 0.0164987

H25f: 0.00951244

H33f: -1.85119e-06

c1sd = -0.1579

c1ed = 0.7377

c2sd = -0.4733c2ed = -0.4744

c3sd = -0.4916

c3ed = -0.2939

c4sd = -0.4935c4ed = 0.0

varx = 3.5673%.

AEXC20 - 67/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.67
Actual Amplitude: 0.67
Actual Power: 0.4489

Distortion 2H-20H: 0.000122929% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 7.55134e-07

H17: -3.46473e-07

P1 start: 14.4778 end: 17.3922 delta: 2.9144
P2 start: 29.1264 end: 34.8118 delta: 5.6854
P3 start: 44.1253 end: 52.2811 delta: 8.1558
P4 start: 59.6628 end: 69.783 delta: 10.1202
P5 start: 75.8978 end: 87.1651 delta: 11.2673

H3: 1.1327e-07 H19: 3.57695e-07 H5: 4.75735e-07 H21: -0.654522 H7: 4.85443e-08 H23: 0.363319 H9: 6.04107e-07 H25: 0.241481 H11: -6.17837e-08 H27: 0.0453875 H13: 2.87532e-07 H29: 0.00410153

H33: -7.35775e-05

H25: 0.241481 H25f: 0.00965922 H27: 0.0453875 H27f: 0.00168102 H29: 0.00410153 H29f: 0.000141432 H31: 0.000233216 H31f: 7.52309e-06

H19f: 1.88261e-08

H21f: -0.0311677

H23f: 0.0157965

H33f: -2.22962e-06

c1ed = 2.7375 c2sd = -0.5104 c2ed = -0.4914 c3sd = -0.5442 c3ed = -0.3094 c4sd = -0.5542 c4ed = 0.0 varx = 3.4942%

c1sd = -0.1769

AEXC20 - 68/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.68
Actual Amplitude: 0.68
Actual Power: 0.4624

Distortion 2H-20H: 0.000222707%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

P1 start: 14.4441 end: 17.396 delta: 2.9519
P2 start: 29.0609 end: 34.8217 delta: 5.7608
P3 start: 44.0327 end: 52.3033 delta: 8.2705
P4 start: 59.5535 end: 69.8289 delta: 10.2754
P5 start: 75.7912 end: 87.2454 delta: 11.4543

H19f: 3.09153e-08

H21f: -0.030701

H23f: 0.0150903

H25f: 0.00979976

H27f: 0.00177417

H29f: 0.000154553

H3: 2.97612e-07 H19: 5.87392e-07 H5: 5.35701e-07 H21: -0.644721 H7: 1.11604e-07 H23: 0.347076 H9: 1.45086e-06 H25: 0.244994 H11: 2.73938e-07 H27: 0.0479025

H13: 2.14624e-07 H29: 0.00448204 H15: 1.39878e-06 H31: 0.000265104 H17: -2 10079e-07 H33: -8 75723e-05

H31: 0.000265104 H31f: 8.55173e-06 H33: -8.75723e-05 H33f: -2.6537e-06 c1sd = -0.1966 c1ed = 2.7554c2sd = -0.5487

c2ed = -0.5087 c3sd = -0.5988 c3ed = -0.3253c4sd = -0.6176

c4sd = -0.0170c4ed = 0.0

varx = 3.4209%.

AEXC20 - 69/100

end: 17.3994

end: 34 8306

end: 52.3239

end: 69.8736

end: 87.3258

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

P1 start: 14.4103

P2 start: 28.9949

P3 start: 43.9392

P4 start: 59.4428

P5 start: 75.6832

Desired Amplitude: 0.69 **Actual Amplitude:** 0.69 Actual Power: 0.4761

Distortion 2H-20H: 0.000405557%

Pulses per sine cycle: 20 Total switching events: 40

Delta Friendly:

First strong harmonics: 19 and 21

H3: -5.13272e-07 H19: -1.99134e-06 H5: -1.58381e-06 H21: -0.634788 H7: 5.49935e-07 H23: 0.330766 H9: -2.06531e-06 H25: 0.248343 H11: -2.69968e-07 H27: 0.0505115

No

H13: -5.75316e-07 H29: 0.00488324 H15: -2.08242e-06 H31: 0.000296099

H17: 6.34042e-07 H33: -0.000107954 H19f: -1.04807e-07

H21f: -0.030228 H23f: 0.0143811 H25f: 0.00993373

H27f: 0.0018708 H29f: 0.000168388

H31f: 9.55158e-06 H33f: -3.27133e-06 c1sd = -0.2166

delta: 2.9891

delta: 5.8357

delta: 8.3847

delta: 10.4308

delta: 11.6426

c1ed = 2.7725

c2sd = -0.5882c2ed = -0.5264

c3sd = -0.6552

c3ed = -0.3417

c4sd = -0.6835c4ed = 0.0

varx = 3.3475%.

AEXC20 - 70/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.7
Actual Amplitude: 0.7
Actual Power: 0.49

Distortion 2H-20H: 0.000237756%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20

Total switching events: 40 Delta Friendly: No

H15: 1.09861e-06

H17: -4.59172e-07

P1 start: 14.376 end: 17.402 delta: 3.0259
P2 start: 28.9282 end: 34.8382 delta: 5.9099
P3 start: 43.8446 end: 52.3428 delta: 8.4982
P4 start: 59.3306 end: 69.9168 delta: 10.5862
P5 start: 75.5737 end: 87.4063 delta: 11.8326

H3: 3.61386e-07
H5: 9.75741e-07
H7: -1.39392e-07
H9: 1.48168e-06
H25: 0.251519
H11: 7.88478e-08
H27: 0.0532128
H13: 4.67022e-07
H29: 0.00532868

H31: 0.000339551

H33: -0.000125529

H23f: 0.0136674 H25f: 0.0100607 H27f: 0.00197085

H19f: 4.44474e-08

H21f: -0.0297499

H29f: 0.000183747 H31f: 1.09533e-05 H33f: -3.80391e-06 c1sd = -0.2377 c1ed = 2.7882 c2sd = -0.6293 c2ed = -0.5443 c3sd = -0.7141 c3ed = -0.3585 c4sd = -0.7526 c4ed = 0.0

varx = 3.2739%.

AEXC20 - 71/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.71 Actual Amplitude: 0.71 Actual Power: 0.5041

Distortion 2H-20H: 0.000659833% First strong harmonics: 19 and 21

Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

H15: 3.83374e-06

H17: -6.03607e-07

P1 start: 14.3415 end: 17.404 delta: 3.0624
P2 start: 28.861 end: 34.8446 delta: 5.9835
P3 start: 43.749 end: 52.36 delta: 8.611
P4 start: 59.2168 end: 69.9584 delta: 10.7415
P5 start: 75.4627 end: 87.4869 delta: 12.0242

H3: 4.27555e-07 H19: 2.58783e-06
H5: 2.86462e-06 H21: -0.614579
H7: -1.37428e-06 H23: 0.297866
H9: 3.21854e-06 H25: 0.254509
H11: 7.38504e-07 H27: 0.0560104
H13: 7.72888e-07 H29: 0.00580519

H33: -0.000148666

H27: 0.0560104 H27f: 0.00207446 H29: 0.00580519 H29f: 0.000200179 H31: 0.000386186 H31f: 1.24576e-05

H19f: 1.36202e-07

H21f: -0.0292657

H23f: 0.0129507

H25f: 0.0101804

H33f: -4.50503e-06

c1sd = -0.2595 c1ed = 2.803 c2sd = -0.6719 c2ed = -0.5626 c3sd = -0.7753 c3ed = -0.3757 c4sd = -0.8248 c4ed = 0.0 varx = 3.2003%.

AEXC20 - 72/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.72
Actual Amplitude: 0.72
Actual Power: 0.5184

Distortion 2H-20H: 0.000140171% First strong harmonics: 19 and 21

Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

H15: 3.79455e-07

H17: -3.47214e-07

P1 start: 14.307 end: 17.4056 delta: 3.0986
P2 start: 28.7933 end: 34.8498 delta: 6.0565
P3 start: 43.6524 end: 52.3754 delta: 8.723
P4 start: 59.1013 end: 69.9984 delta: 10.8971
P5 start: 75.35 end: 87.5675 delta: 12.2175

H3: 5.9729e-07 H19: 8.09948e-07 H5: 5.27021e-07 H21: -0.604275 H7: -2.71039e-07 H23: 0.281333 H9: 5.27021e-07 H25: 0.257304 H11: 1.43733e-07 H27: 0.0589097 H13: 1.94592e-07 H29: 0.00630642

H31: 0.000433184

H33: -0.000179305

H23f: 0.0122319 H25f: 0.0102921 H27f: 0.00218184 H29f: 0.000217463

H19f: 4.26288e-08

H21f: -0.028775

H31f: 1.39737e-05 H33f: -5.43349e-06 c1sd = -0.2817 c1ed = 2.8169 c2sd = -0.7159 c2ed = -0.5811 c3sd = -0.8388 c3ed = -0.3935 c4sd = -0.9003 c4ed = 0.0 varx = 3.1267%.

AEXC20 - 73/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.73
Actual Amplitude: 0.73
Actual Power: 0.5329

Distortion 2H-20H: 0.000411485% First strong harmonics: 19 and 21

Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

H15: 2.46732e-06

H17: -1.14968e-06

P1 start: 14.2721 end: 17.4064 delta: 3.1343
P2 start: 28.7249 end: 34.8536 delta: 6.1287
P3 start: 43.5545 end: 52.3888 delta: 8.8342
P4 start: 58.9841 end: 70.0365 delta: 11.0525
P5 start: 75.2354 end: 87.6483 delta: 12.4129

H3: 2.42574e-07 H19: 1.22564e-06 H5: 1.43465e-06 H21: -0.593851 H7: -1.18812e-06 H23: 0.264723 H9: 2.11386e-06 H25: 0.259893 H11: -1.41764e-07 H27: 0.0619037 H13: 5.59786e-08 H29: 0.00685339

H31: 0.000490022

H33: -0.000213966

H21f: -0.0282786 H23f: 0.0115097 H25f: 0.0103957 H27f: 0.00229273 H29f: 0.000236324

H19f: 6.45072e-08

H31f: 1.58072e-05 H33f: -6.48382e-06 c1sd = -0.305 c1ed = 2.8293 c2sd = -0.7617 c2ed = -0.5998 c3sd = -0.905 c3ed = -0.4117 c4sd = -0.9794 c4ed = 0.0

varx = 3.0531%.

AEXC20 - 74/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.74
Actual Amplitude: 0.74
Actual Power: 0.5476

Distortion 2H-20H: 0.000903081% First strong harmonics: 19 and 21

Pulses per sine cycle: 20
Total switching events: 40
Delta Friendly: No

P1 start: 14.2368 end: 17.4065 delta: 3.1697
P2 start: 28.6559 end: 34.856 delta: 6.2002
P3 start: 43.4555 end: 52.4001 delta: 8.9446
P4 start: 58.8649 end: 70.0727 delta: 11.2078
P5 start: 75.1187 end: 87.7292 delta: 12.6104

H3: 1.36741e-07 H19: 3.62722e-06 H19f: 1.90906e-07 H5: 3.71251e-06 H21: -0.5833 H21f: -0.0277762 H23: 0.248049 H7: -2.25622e-06 H23f: 0.0107847 H25: 0.262267 H25f: 0.0104907 H9: 4.45546e-06 H11: 3.07666e-07 H27: 0.0650006 H27f: 0.00240743 H13: -1.10444e-06 H29: 0.00744247 H29f: 0.000256637 H15: 4.92266e-06 H31f: 1.78936e-05 H31: 0.000554702 H17: -2.02698e-06 H33: -0.000256087 H33f: -7.76021e-06

c1sd = -0.3291 c1ed = 2.8406 c2sd = -0.8093 c2ed = -0.6188 c3sd = -0.9741 c3ed = -0.4303 c4sd = -1.0624 c4ed = 0.0 varx = 2.9796%.

AEXC20 - 75/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.75 Actual Amplitude: 0.75 Actual Power: 0.5625

Distortion 2H-20H: 0.000342182% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 14.2014 end: 17.4061 delta: 3.2047 P2 start: 28.5862 end: 34.8571 delta: 6.2709 P3 start: 43.3552 end: 52.4092 delta: 9.054 P4 start: 58.7437 end: 70.1068 delta: 11.3631 end: 87.8101 delta: 12.8101 P5 start: 75,0001

H3: 2.02376e-07 H5: 1.61901e-06 H7: -8.23959e-07 H9: 1.4616e-06 H11: 1.6558e-07 H13: -2.02376e-07

H15: 1.45711e-06

H17: -1.13092e-06

H19: 1.66161e-06 H19f: 8.74533e-08 H21: -0.572612 H23: 0.231337 H25: 0.264407 H27: 0.0682066 H29: 0.00806182 H31: 0.000624304

H33: -0.000302525

H21f: -0.0272672 H23f: 0.0100581 H25f: 0.0105763 H27f: 0.00252617 H29f: 0.000277994

H31f: 2.01388e-05 H33f: -9.16741e-06 varx = 2.9063%.

c1sd = -0.3541c1ed = 2.8506c2sd = -0.8587c2ed = -0.638c3sd = -1.0461c3ed = -0.4494c4sd = -1.1495c4ed = 0.0

AEXC20 - 76/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.76
Actual Amplitude: 0.76
Actual Power: 0.577599
Distortion 2H-20H: 0.00106089%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 4.81975e-06

H17: -3.12493e-06

P1 start: 14.1656 end: 17.4048 delta: 3.2392
P2 start: 28.5158 end: 34.8565 delta: 6.3407
P3 start: 43.2536 end: 52.416 delta: 9.1624
P4 start: 58.6204 end: 70.1384 delta: 11.518
P5 start: 74.8788 end: 87.8912 delta: 13.0124

H3: 9.98566e-08 H19: 4.
H5: 4.77315e-06 H21: -0.
H7: -3.3666e-06 H23: 0.
H9: 5.01502e-06 H25: 0.
H11: -8.17009e-08 H27: 0.
H13: -6.37546e-07 H29: 0.

H19: 4.45676e-06 H21: -0.561797 H23: 0.214558 H25: 0.266311 H27: 0.0715106 H29: 0.00873854

H31: 0.000706263

H33: -0.000360334

H21f: -0.0267522 H23f: 0.00932861 H25f: 0.0106524 H27f: 0.00264854

H19f: 2.34566e-07

H29f: 0.000301329 H31f: 2.27827e-05 H33f: -1.09192e-05 c1ed = 2.859 c2sd = -0.9105 c2ed = -0.6573c3sd = -1.1216

c1sd = -0.3802

c3sd = -0.4688 c4sd = -0.4688 c4sd = -1.2412c4ed = 0.0

varx = 2.8332%.

AEXC20 - 77/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.77
Actual Amplitude: 0.77
Actual Power: 0.5929
Distortion 2H-20H: 0.00198045%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 1.004e-05

H17: -6.29623e-06

P1 start: 14.1294 end: 17.4027 delta: 3.2734
P2 start: 28.4446 end: 34.8543 delta: 6.4098
P3 start: 43.1506 end: 52.4202 delta: 9.2696
P4 start: 58.4947 end: 70.1674 delta: 11.6726
P5 start: 74.7549 end: 87.9725 delta: 13.2175

H3: -1.41269e-06 H5: 8.7324e-06 H7: -6.15295e-06 H9: 8.81562e-06 H1: 1.0304e-06 H13: -2.31236e-06 H2: 7.1793e-06 H2: 0.197729 H25: 0.267962 H27: 0.0749195 H29: 0.00946454

H31: 0.000800057

H33: -0.000429416

H21f: -0.0262307 H23f: 0.0085969 H25f: 0.0107185 H27f: 0.0027748

H19f: 3.77858e-07

H29f: 0.000326363 H31f: 2.58083e-05 H33f: -1.30126e-05 c1sd = -0.4076 c1ed = 2.8658 c2sd = -0.9645 c2ed = -0.6766 c3sd = -1.2006 c3ed = -0.4886 c4sd = -1.3379 c4ed = 0.0

varx = 2.7604%.

AEXC20 - 78/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.78 Actual Amplitude: 0.78 Actual Power: 0.6084

Distortion 2H-20H: 0.00231572% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 14.0929 end: 17.4

P2 start: 28.3726 P3 start: 43.0461 P4 start: 58.3666

P5 start: 74.6283

end: 34.8505 end: 52.4217

delta: 9.3757 end: 70.1936 delta: 11.827 delta: 13.4255

delta: 3.307

delta: 6.4779

end: 88.0538

H3: -2.59456e-07 H5: 9.78799e-06

H7: -7.92269e-06 H9: 9.72962e-06 H11: 9.19891e-07 H27: 0.0784464 H13: -2.49228e-06 H15: 1.13642e-05 H17: -7.32583e-06

H19: 9.64768e-06 H21: -0.539748 H23: 0.180865 H25: 0.269341

H29: 0.0102356 H31: 0.000903323

H33: -0.00050977

H19f: 5.07773e-07

H21f: -0.0257023 H23f: 0.00786368 H25f: 0.0107736

H27f: 0.00290542 H29f: 0.00035295

H31f: 2.91394e-05 H33f: -1.54476e-05 c1sd = -0.436

c1ed = 2.871

c2sd = -1.0209c2ed = -0.696

c3sd = -1.2834c3ed = -0.5088

c4sd = -1.4398c4ed = 0.0

varx = 2.6878%.

AEXC20 - 79/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.79
Actual Amplitude: 0.79
Actual Power: 0.6241
Distortion 2H-20H: 0.00497165%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: 2.50536e-05

H17: -1.72803e-05

P1 start: 14.056 end: 17.3962 delta: 3.3403
P2 start: 28.2998 end: 34.8448 delta: 6.545
P3 start: 42.94 end: 52.4204 delta: 9.4804
P4 start: 58.2359 end: 70.2162 delta: 11.9803
P5 start: 74.4981 end: 88.1354 delta: 13.6373

H19f: 8.62186e-07

H21f: -0.0251671

H3: -3.77854e-06 H19: 1.63815e-05 H5: 2.10381e-05 H21: -0.528509 H7: -1.70446e-05 H23: 0.163937 H9: 2.14331e-05 H25: 0.270453 H11: 9.08247e-07 H27: 0.0820639 H13: -8.33545e-06 H29: 0.0110795

 H23:
 0.163937
 H23f:
 0.00712772

 H25:
 0.270453
 H25f:
 0.0108181

 H27:
 0.0820639
 H27f:
 0.0030394

 H29:
 0.0110795
 H29f:
 0.00038205

 H31:
 0.00102585
 H31f:
 3.30919e-05

 H33:
 -0.000615686
 H33f:
 -1.86572e-05

c1sd = -0.4661 c1ed = 2.8742 c2sd = -1.0804 c2ed = -0.7151 c3sd = -1.3708 c3ed = -0.5288 c4sd = -1.5479 c4ed = 0.0 varx = 2.6157%.

AEXC20 - 80/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

P5 start: 74.3664

Desired Amplitude: 0.8 **Actual Amplitude:** 0.8 Actual Power:

Distortion 2H-20H: 0.003383333%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 1.06582e-05

P1 start: 14.0196 end: 17.3924 delta: 3.3728 P2 start: 28.2265 end: 34 8376 delta: 6.6111 P3 start: 42.8324 end: 52.416 delta: 9.5836 end: 70.2378 delta: 12.1356 P4 start: 58.1022

end: 88.2167

H19: -1.09942e-05 H3: 2.56132e-06 H5: -1.4628e-05 H21: -0.517093 H7: 1.22239e-05 H23: 0.147106 H25: 0.271193 H9: -1.3555e-05 H11: -1.8714e-06 H27: 0.0858924 H13: 5.34886e-06 H29: 0.0118864 H15: -1.80115e-05 H31: 0.00113506

H33: -0.000690358

0.64

H19f: -5.78643e-07 c1sd = -0.4958c1ed = 2.877H21f: -0.0246235 H23f: 0.00639592 c2sd = -1.1409H25f: 0.0108477 c2ed = -0.7351H27f: 0.0031812 c3sd = -1.4605H29f: 0.000409877 c3ed = -0.551H31f: 3.66148e-05 c4sd = -1.66

H33f: -2.09199e-05

c4ed = 0.0varx = 2.5441%.

delta: 13.8503

AEXC20 - 81/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.81
Actual Amplitude: 0.81
Actual Power: 0.6561
Distortion 2H-20H: 0.0060

Distortion 2H-20H: 0.00606034% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H13: 1.32107e-05

H15: -2.90322e-05

H17: 2.22107e-05

P1 start: 13.982 end: 17.387 delta: 3.405
P2 start: 28.1519 end: 34.828 delta: 6.6762
P3 start: 42.7229 end: 52.4082 delta: 9.6853
P4 start: 57.9654 end: 70.2543 delta: 12.2889
P5 start: 74.2299 end: 88.2983 delta: 14.0684

H19f: -1.00752e-06

H33f: -2.41359e-05

H3: 7.90141e-06 H19: -1.91429e-05 H5: -2.47911e-05 H21: -0.505548 H7: 2.43467e-05 H23: 0.130157 H9: -2.29026e-05 H25: 0.271642 H11: -1.14135e-06 H27: 0.0897982

 H21: -0.505548
 H21f: -0.0240737

 H23: 0.130157
 H23f: 0.005659

 H25: 0.271642
 H25f: 0.0108657

 H27: 0.0897982
 H27f: 0.00332586

 H29: 0.0128093
 H29f: 0.000441699

 H31: 0.00128277
 H31f: 4.13796e-05

H33: -0.000796483

c1sd = -0.5283 c1ed = 2.8767 c2sd = -1.2057 c2ed = -0.7544 c3sd = -1.5563 c3ed = -0.5726 c4sd = -1.7802 c4ed = 0.0 varx = 2.473%.

AEXC20 - 82/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

 Desired Amplitude:
 0.82

 Actual Amplitude:
 0.820007

 Actual Power:
 0.672411

 Distortion 2H-20H:
 0.0146102%

First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: -7.13246e-05

H17: 5.55513e-05

P1 start: 13.9446 end: 17.3811 delta: 3.4365
P2 start: 28.0765 end: 34.8165 delta: 6.74
P3 start: 42.6115 end: 52.3969 delta: 9.7854
P4 start: 57.8252 end: 70.2681 delta: 12.4429
P5 start: 74.0903 end: 88.3799 delta: 14.2896

H3: 1.55483e-05 H19: -4.41509e-05 H5: -6.53213e-05 H21: -0.493817 H7: 5.67856e-05 H23: 0.113242 H9: -5.16836e-05 H25: 0.271711 H11: -2.47359e-06 H27: 0.0938816 H13: 2.85123e-05 H29: 0.013753

H29: 0.013753 H31: 0.00142645 H33: -0.000897557 H19f: -2.32373e-06 H21f: -0.0235151 H23f: 0.00492356

H25f: 0.0108684 H27f: 0.0034771 H29f: 0.000474241 H31f: 4.60145e-05

H33f: -2.71987e-05

c1sd = -0.5615

c1ed = 2.875c2sd = -1.2729

c2ed = -0.7741c3sd = -1.6563

c3sd = -1.6563c3ed = -0.5953

c4sd = -1.9067c4ed = 0.0

varx = 2.4025%.

AEXC20 - 83/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.83
Actual Amplitude: 0.830016
Actual Power: 0.688926
Distortion 2H-20H: 0.0724665%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 13.9088 end: 17.3759 delta: 3.4672
P2 start: 28.0011 end: 34.8038 delta: 6.8027
P3 start: 42.4988 end: 52.3824 delta: 9.8835
P4 start: 57.6808 end: 70.2903 delta: 12.6095
P5 start: 73.9573 end: 88.4594 delta: 14.5021

H3: 0.000105788 H19: -0.000213155 H19f: -1.12187e-05 H5: -0.000310361 H21: -0.481941 H21f: -0.0229496 H7: 0.000296583 H23: 0.0968057 H23f: 0.00420894 H9: -0.000251675 H25: 0.270983 H25f: 0.0108393 H11: -1.30583e-05 H27: 0.0985639 H27f: 0.00365052 H13: 0.000159839 H29: 0.014441 H29f: 0.000497965 H15: -0.000346178 H31f: 4.73476e-05 H31: 0.00146778 H17: 0.000274461 H33: -0.000672946 H33f: -2.03923e-05

c1sd = -0.5906 c1ed = 2.8766 c2sd = -1.3352 c2ed = -0.8 c3sd = -1.7506 c3ed = -0.6282 c4sd = -2.029 c4ed = 0.0 varx = 2.3332%.

AEXC20 - 84/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.84
Actual Amplitude: 0.840013
Actual Power: 0.705622

Distortion 2H-20H: 0.249947% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H3: 0.000386105

H5: -0.00108938

P1 start: 13.8774 end: 17.3736 delta: 3.4962
P2 start: 27.9273 end: 34.7911 delta: 6.8638
P3 start: 42.3854 end: 52.3654 delta: 9.98
P4 start: 57.5306 end: 70.3422 delta: 12.8116
P5 start: 73.8503 end: 88.5336 delta: 14.6832

H19: -0.000697996 H19f: -3.67366e-05 H21: -0.470004 H21f: -0.0223811

 H9: -0.000814049
 H25: 0.268751
 H25f: 0.0107501

 H11: -7.84688e-05
 H27: 0.104521
 H27f: 0.00387115

 H13: 0.000616904
 H29: 0.0144455
 H29f: 0.000498119

 H15: -0.0012027
 H31: 0.00112894
 H31f: 3.64174e-05

H17: 0.000955436 H33: 0.000477252 H33f: 1.44622e-05

c1sd = -0.606 c1ed = 2.8901 c2sd = -1.3782 c2ed = -0.8434 c3sd = -1.8211 c3ed = -0.6881 c4sd = -2.1272 c4ed = 0.0 varx = 2.2661%.

AEXC20 - 85/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.85
Actual Amplitude: 0.850002
Actual Power: 0.722504

Distortion 2H-20H: 0.547072% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H3: 0.000886226

H5: -0.00238429

P1 start: 13.8506 end: 17.3749 delta: 3.5243
P2 start: 27.8547 end: 34.7782 delta: 6.9235
P3 start: 42.2714 end: 52.3454 delta: 10.074
P4 start: 57.374 end: 70.429 delta: 13.055

end: 88.6015

H19f: -7.82315e-05

P5 start: 73.7738

H7: 0.00225252 H23: 0.0677567 H23f: 0.00294594 H9: -0.00178126 H25: 0.264978 H25f: 0.0105991 H11: -0.000190782 H27: 0.111848 H27f: 0.00414252 H13: 0.00135134 H29: 0.0137924 H29f: 0.000475601

H19: -0.0014864

H15: -0.00262336 H31: 0.000378342 H31f: 1.22046e-05 H17: 0.00206346 H33: 0.0025913 H33f: 7.85244e-05 c1sd = -0.6062 c1ed = 2.9181 c2sd = -1.3994 c2ed = -0.9077 c3sd = -1.8632 c3ed = -0.7801 c4sd = -2.197 c4ed = 0.0 varx = 2.201%.

delta: 14.8277

AEXC20 - 86/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.86 Actual Amplitude: 0.860008 Actual Power: 0.739614 Distortion 2H-20H: 0.86887%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20

Total switching events: 40 Delta Friendly: No

H7: 0.0035704

H13: 0.00222388

H15: -0.00416048

H17: 0.00327394

P1 start: 13.8225 delta: 3.5514 end: 17.3739 P2 start: 27.7809 end: 34 763 delta: 6.9821 P3 start: 42.1542 end: 52.3204 delta: 10.1663 end: 70.5275 P4 start: 57.2115 delta: 13.316 P5 start: 73.7085 end: 88.6684 delta: 14.9598

H3: 0.00146039 H19: -0.00230476 H5: -0.00381334 H21: -0.44603 H23: 0.0540983 H9: -0.00277176 H25: 0.26038 H11: -0.000320921

H27: 0.119622 H29: 0.0131659 H31: -0.000561636

H33: 0.00510588

H23f: 0.0023521 H25f: 0.0104152 H27f: 0.00443046 H29f: 0.000453998

H19f: -0.000121303

H21f: -0.0212395

H31f: -1.81173e-05 H33f: 0.000154724 c1sd = -0.6041

c1ed = 2.9473c2sd = -1.4149

c2ed = -0.9812c3sd = -1.8989

c3ed = -0.8865c4sd = -2.261

c4ed = 0.0

varx = 2.137%.

AEXC20 - 87/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.87
Actual Amplitude: 0.870029
Actual Power: 0.75695
Distortion 2H-20H: 1.18081%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 0.00445172

P1 start: 13.7919 end: 17.3701 delta: 3.5782
P2 start: 27.7044 end: 34.744 delta: 7.0397
P3 start: 42.034 end: 52.2888 delta: 10.2548
P4 start: 57.0425 end: 70.6282 delta: 13.5858
P5 start: 73.6466 end: 88.7363 delta: 15.0898

H3: 0.00203541 H19: -0.00305649
H5: -0.00517851 H21: -0.433916
H7: 0.00485752 H23: 0.0402813
H9: -0.00367803 H25: 0.255281
H11: -0.000528143 H27: 0.12753
H13: 0.00315543 H29: 0.0128314
H15: -0.00565265 H31: -0.00160653

H33: 0.00778403

H19f: -0.000160868 H21f: -0.0206627 H23f: 0.00175136 H25f: 0.0102112 H27f: 0.00472334 H29f: 0.000442462 H31f: -5.18235e-05

H33f: 0.00023588

c1sd = -0.6038 c1ed = 2.9744 c2sd = -1.4317 c2ed = -1.0599 c3sd = -1.9356 c3ed = -1.0015 c4sd = -2.3293 c4ed = 0.0 varx = 2.0737%.

AEXC20 - 88/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.88 Actual Amplitude: 0.880055 Actual Power: 0.774496 Distortion 2H-20H: 1.46925% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 0.00548842

P1 start: 13.7593 end: 17.3642 delta: 3.6049
P2 start: 27.626 end: 34.721 delta: 7.095
P3 start: 41.9098 end: 52.2515 delta: 10.3417
P4 start: 56.8674 end: 70.7269 delta: 13.8595
P5 start: 73.5834 end: 88.8042 delta: 15.2208

H3: 0.00263463 H19: -0.0036994 H
H5: -0.00651082 H21: -0.421657 H
H7: 0.0060847 H23: 0.0263151 H
H9: -0.00446714 H25: 0.249765 H
H11: -0.000722041 H27: 0.135424 H
H13: 0.00399914 H29: 0.0129087 H
H15: -0.00701686 H31: -0.00272998 H

H33: 0.0103521

H19f: -0.000194705 c1sd = -0.6063c1ed = 2.9987H21f: -0.0200789 H23f: 0.00114414 c2sd = -1.4516H25f: 0.00999062 c2ed = -1.1414H27f: 0.00501571 c3sd = -1.9781H29f: 0.000445126 c3ed = -1.1206H31f: -8.80638e-05 c4sd = -2.4057c4ed = 0.0H33f: 0.000313699 varx = 2.0112%.

AEXC20 - 89/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.89
Actual Amplitude: 0.889988
Actual Power: 0.792097
Distortion 2H-20H: 1.74919%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 0.00648216

P1 start: 13.7256 end: 17.3569 delta: 3.6313
P2 start: 27.5451 end: 34.6944 delta: 7.1493
P3 start: 41.7829 end: 52.2062 delta: 10.4232
P4 start: 56.687 end: 70.8288 delta: 14.1418
P5 start: 73.5245 end: 88.8712 delta: 15.3467

H3: 0.0032733 H19: -0.00424587 H5: -0.00776672 H21: -0.409369 H7: 0.00729069 H23: 0.0124098 H9: -0.00527392 H25: 0.243741 H11: -0.000924802 H27: 0.14342 H13: 0.00483412 H29: 0.0132996 H15: -0.00834809 H31: -0.00394647

H33: 0.0129493

H21f: -0.0194938 H23f: 0.000539557 H25f: 0.00974963 H27f: 0.00531186 H29f: 0.000458607 H31f: -0.000127305

H33f: 0.000392403

H19f: -0.000223467

c1sd = -0.6088 c1ed = 3.0225 c2sd = -1.4722 c2ed = -1.2283 c3sd = -2.0206 c3ed = -1.2503 c4sd = -2.4842 c4ed = 0.0 varx = 1.9503%.

AEXC20 - 90/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

P5 start: 73.4648

Desired Amplitude: 0.9 **Actual Amplitude:** 0.899989 Actual Power: 0.809979

Distortion 2H-20H: 2.00674% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 0.00738716

P1 start: 13.6871 end: 17.3438 delta: 3.6567 P2 start: 27 4616 end: 34 6636 delta: 7.202 P3 start: 41.6521 end: 52.1524 delta: 10.5003 P4 start: 56.4983 end: 70.9289 delta: 14.4306

end: 88.9405

H3: 0.00385253 H19: -0.00474788 H5: -0.00893591 H21: -0.396888 H7: 0.0083931 H23: -0.00180612 H25: 0.23718 H9: -0.00592838 H11: -0.00115952 H27: 0.151274 H13: 0.00574605 H29: 0.0141627 H15: -0.0095365

H31: -0.00525475

H33: 0.0156426

H21f: -0.0188994 H23f: -7.85269e-05 H25f: 0.00948719 H27f: 0.00560273 H29f: 0.000488369 H31f: -0.000169508

H33f: 0.000474018

H19f: -0.000249888

c1sd = -0.6165c1ed = 3.0401c2sd = -1.4964c2ed = -1.3184c3sd = -2.0686c3ed = -1.387c4sd = -2.5729c4ed = 0.0varx = 1.8901%.

delta: 15.4758

AEXC20 - 91/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.91
Actual Amplitude: 0.909998
Actual Power: 0.828096

Distortion 2H-20H: 2.25139% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No P1 start: 13.6481 end: 17.3293 delta: 3.6813
P2 start: 27.3758 end: 34.6274 delta: 7.2516
P3 start: 41.5157 end: 52.089 delta: 10.5733
P4 start: 56.3003 end: 71.0309 delta: 14.7305

P5 start: 73.407 end: 89.0099 delta: 15.6029

H3: 0.00443899 H19: -0.00509798 H5: -0.0100989 H21: -0.38413 H7: 0.00945744 H23: -0.0161111

H7: 0.00945744 H23: -0.0161111 H9: -0.00652514 H25: 0.230014 H11: -0.0014007 H27: 0.159218 H13: 0.00660681 H29: 0.0154895 H15: -0.0106993 H31: -0.00674658 H17: 0.00819052 H33: 0.0182254 H21f: -0.0182919 H23f: -0.000700482 H25f: 0.00920058 H27f: 0.00589695 H29f: 0.00053412 H31f: -0.000217632

H33f: 0.000552284

H19f: -0.000268315

c1sd = -0.6243 c1ed = 3.0569 c2sd = -1.5218 c2ed = -1.415 c3sd = -2.1205 c3ed = -1.5348 c4sd = -2.6688 c4ed = 0.0 varx = 1.8307%.

AEXC20 - 92/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.92
Actual Amplitude: 0.920031
Actual Power: 0.846457
Distortion 2H-20H: 2.47689%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 0.0089154

P1 start: 13.6066 end: 17.3128 delta: 3.7062
P2 start: 27.2865 end: 34.5864 delta: 7.2999
P3 start: 41.3761 end: 52.0177 delta: 10.6415
P4 start: 56.0945 end: 71.1324 delta: 15.0379
P5 start: 73.3485 end: 89.0796 delta: 15.7311

H3: 0.0050405 H19: -0.00546405 H5: -0.0111733 H21: -0.371163 H7: 0.0105136 H23: -0.0304299 H9: -0.00705043 H25: 0.222266 H11: -0.0016843 H27: 0.167006 H13: 0.00736695 H29: 0.0173972 H15: -0.0116857 H31: -0.00827137

H29: 0.0173972 H31: -0.00827137 H33: 0.020628 H19f: -0.000287582 H21f: -0.0176744

H23f: -0.00132304 H25f: 0.00889066 H27f: 0.0061854 H29f: 0.000599902 H31f: -0.000266818 H33f: 0.00062509 c1sd = -0.6347

c1ed = 3.0715 c2sd = -1.551c2ed = -1.5161

c3sd = -2.176c3ed = -1.6902

c4sd = -2.7732c4ed = 0.0

varx = 1.7726%.

AEXC20 - 93/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.93
Actual Amplitude: 0.93003
Actual Power: 0.864956
Distortion 2H-20H: 2.67476%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 0.00956702

P1 start: 13.5611 end: 17.291 delta: 3.7299
P2 start: 27.194 end: 34.5395 delta: 7.3455
P3 start: 41.2313 end: 51.9339 delta: 10.7026
P4 start: 55.8805 end: 71.2289 delta: 15.3483
P5 start: 73.2862 end: 89.1516 delta: 15.8655

H3: 0.00555711 H19: -0.00569168 H19f: -0.000299562 H5: -0.0120618 H21: -0.358003 H21f: -0.0170477 H7: 0.011409 H23: -0.0450058 H23f: -0.00195678 H9: -0.00747364 H25: 0.213968 H25f: 0.00855872 H11: -0.00193668 H27: 0.17448 H27f: 0.00646223 H13: 0.00816149 H29: 0.019986 H29f: 0.000689172 H15: -0.0126001 H31f: -0.000318509 H31: -0.00987379

H33: 0.0228996

c1sd = -0.6506 c1ed = 3.0793 c2sd = -1.5863 c2ed = -1.6202 c3sd = -2.241 c3ed = -1.8539 c4sd = -2.8906 c4ed = 0.0 varx = 1.7162%.

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H33f: 0.000693928

AEXC20 - 94/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly, Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.94 **Actual Amplitude:** 0.939989 Actual Power: 0.883579 Distortion 2H-20H: 2.85629% First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 0.0100985

P1 start: 13.516 end: 17.2678 delta: 3.7518 P2 start: 27.0993 end: 34 4879 delta: 7.3886 P3 start: 41.0822 end: 51.837 delta: 10.7548 end: 71.3252 delta: 15.669 P4 start: 55.6562 P5 start: 73.2246 end: 89.2246 delta: 16.0

H3: 0.0060287 H19f: -0.000307315 H19: -0.00583898 H5: -0.0128773 H21: -0.344523 H7: 0.0122121 H23: -0.0594717 H9: -0.00787891 H25: 0.205083 H11: -0.00224051 H27: 0.181789 H13: 0.00896243 H29: 0.0231376 H15: -0.0134551 H31: -0.011676

H33: 0.0249868

H21f: -0.0164059 H23f: -0.00258573 H25f: 0.00820332 H27f: 0.00673293 H29f: 0.000797849 H31f: -0.000376645 H33f: 0.000757176 c1sd = -0.6662c1ed = 3.0856c2sd = -1.6239c2ed = -1.7289c3sd = -2.3103c3ed = -2.0305c4sd = -3.0185c4ed = 0.0varx = 1.6611%.

AEXC20 - 95/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.95
Actual Amplitude: 0.949969
Actual Power: 0.902441
Distortion 2H-20H: 3.02091%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20

Total switching events: 40
Delta Friendly: No

H17: 0.0105346

P1 start: 13.4665 end: 17.2402 delta: 3.7737
P2 start: 27.0012 end: 34.4292 delta: 7.4279
P3 start: 40.9271 end: 51.7279 delta: 10.8007
P4 start: 55.4199 end: 71.4211 delta: 16.0012
P5 start: 73.1628 end: 89.2981 delta: 16.1353

H3: 0.00649613 H19: -0.005965 H5: -0.013649 H21: -0.33075 H7: 0.0130088 H23: -0.0739794 H9: -0.00815049 H25: 0.195324

H11: -0.00254598 H27: 0.188837 H13: 0.00971418 H29: 0.0270696 H15: -0.0141784 H31: -0.0135245

H33: 0.02683

H19f: -0.000313947

H21f: -0.01575 H23f: -0.0032165 H25f: 0.00781298 H27f: 0.00699397

H29f: 0.000933433 H31f: -0.000436274 H33f: 0.000813032 c1sd = -0.6864

c1ed = 3.0873

c2sd = -1.6652c2ed = -1.8445

c3sd = -2.3859

c3ed = -2.2191c4sd = -3.1589

c4ed = 0.0

varx = 1.6078%.

AEXC20 - 96/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.96
Actual Amplitude: 0.960029
Actual Power: 0.921656
Distortion 2H-20H: 3.1659%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 0.0108809

P1 start: 13.4152 end: 17.2087 delta: 3.7935
P2 start: 26.8986 end: 34.363 delta: 7.4644
P3 start: 40.7639 end: 51.6043 delta: 10.8404
P4 start: 55.1697 end: 71.5146 delta: 16.3449
P5 start: 73.0979 end: 89.3728 delta: 16.2749

H3: 0.00696648 H19: -0.00600562 H5: -0.0143957 H21: -0.316494 H7: 0.0136958 H23: -0.0885079 H9: -0.00835587 H25: 0.184651 H11: -0.0028597 H27: 0.195543 H13: 0.0104044 H29: 0.031892 H15: -0.0147727 H31: -0.0154387

H33: 0.028235

H19f: -0.000316085 H21f: -0.0150711 H23f: -0.00384817 H25f: 0.00738603 H27f: 0.00724233 H29f: 0.00109972 H31f: -0.000498023 H33f: 0.000855605 c1sd = -0.7091 c1ed = 3.0844 c2sd = -1.7125 c2ed = -1.966 c3sd = -2.4718 c3ed = -2.4201 c4sd = -3.3157 c4ed = 0.0 varx = 1.5558%.

AEXC20 - 97/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.97
Actual Amplitude: 0.969996
Actual Power: 0.940893
Distortion 2H-20H: 3.29148%

First strong harmonics: 19 and 21 Pulses per sine cycle: 20

Total switching events: 40
Delta Friendly: No

H17: 0.0111393

P1 start: 13.3611 end: 17.1735 delta: 3.8124
P2 start: 26.7922 end: 34.2882 delta: 7.496
P3 start: 40.5943 end: 51.4636 delta: 10.8694
P4 start: 54.9074 end: 71.605 delta: 16.6976
P5 start: 73.0309 end: 89.4481 delta: 16.4172

 H3: 0.00737874
 H19: -0.00594991

 H5: -0.0150092
 H21: -0.301939

 H7: 0.014331
 H23: -0.102929

 H9: -0.0084996
 H25: 0.173117

H9: -0.0084996 H25: 0.173117 H11: -0.003162 H27: 0.201792 H13: 0.0110516 H29: 0.0376178 H15: -0.0153107 H31: -0.0173257

H33: 0.0291985

H19f: -0.000313153 H21f: -0.0143781 H23f: -0.00447517

H25f: 0.00692468 H27f: 0.00747377 H29f: 0.00129717

H31f: -0.000558894 H33f: 0.000884803 c1sd = -0.7355

c1ed = 3.0769

c2sd = -1.7653c2ed = -2.0943

c3sd = -2.5666

c3ed = -2.6355c4sd = -3.4877

c4ed = 0.0

varx = 1.5062%.

AEXC20 - 98/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.98
Actual Amplitude: 0.980026
Actual Power: 0.960451
Distortion 2H-20H: 3.40086%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 0.0113445

P1 start: 13.3023 end: 17.1319 delta: 3.8296
P2 start: 26.6798 end: 34.2041 delta: 7.5242
P3 start: 40.4159 end: 51.3017 delta: 10.8858
P4 start: 54.6275 end: 71.6939 delta: 17.0664
P5 start: 72.9613 end: 89.526 delta: 16.5648

H3: 0.00772191 H19: -0.00586477
H5: -0.0154832 H21: -0.286839
H7: 0.0148923 H23: -0.117406
H9: -0.00860125 H25: 0.160434
H11: -0.00347438 H27: 0.207498
H13: 0.0117488 H29: 0.0443709
H15: -0.0157565 H31: -0.0191609

H33: 0.0297517

H21f: -0.013659 H23f: -0.0051046 H25f: 0.00641736 H27f: 0.0076851 H29f: 0.00153003 H31f: -0.000618095

H33f: 0.000901568

H19f: -0.000308672

c1sd = -0.767 c1ed = 3.0626 c2sd = -1.825 c2ed = -2.2311 c3sd = -2.6713 c3ed = -2.8712 c4sd = -3.6786 c4ed = 0.0 varx = 1.4585%.

AEXC20 - 99/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 0.99
Actual Amplitude: 0.989953
Actual Power: 0.980006
Distortion 2H-20H: 3.49047%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H17: 0.011424

P1 start: 13.2422 end: 17.0864 delta: 3.8442
P2 start: 26.5636 end: 34.1085 delta: 7.5449
P3 start: 40.2288 end: 51.1205 delta: 10.8917
P4 start: 54.3302 end: 71.7774 delta: 17.4472
P5 start: 72.8892 end: 89.604 delta: 16.7148

H3: 0.0080388 H19: -0.00567264 H5: -0.0159796 H21: -0.271285 H7: 0.0153862 H23: -0.131504 H9: -0.00853699 H25: 0.146605 H11: -0.00386985 H27: 0.212496 H13: 0.0123485 H29: 0.0523199 H15: -0.0160812 H31: -0.0208945

H33: 0.0295369

H21f: -0.0129183 H23f: -0.00571757 H25f: 0.00586419 H27f: 0.0078702 H29f: 0.00180413 H31f: -0.000674016

H33f: 0.000895058

H19f: -0.00029856

c1sd = -0.8015 c1ed = 3.0426 c2sd = -1.8918 c2ed = -2.3762 c3sd = -2.7893 c3ed = -3.1215 c4sd = -3.8923 c4ed = 0.0 varx = 1.413%.

AEXC20 - 100/100

SUMMARY: This steplock-20 carrier suppressed "constant amplitude increments" magic sinewave is not delta friendly. Harmonics 2 through 20 are virtually zero. The first major harmonics are the 21st and 23rd. Harmonic amplitudes are relative to the fundamental. Filtered "f" harmonics assume a filter of an "integrating" or 1/H or 1/f response. An 0.001 degree or better timing accuracy is required.

Desired Amplitude: 1.0
Actual Amplitude: 1.00003
Actual Power: 1.00005
Distortion 2H-20H: 3.56446%
First strong harmonics: 19 and 21

Pulses per sine cycle: 20 Total switching events: 40 Delta Friendly: No

H15: -0.0163236

H17: 0.0114291

P1 start: 13.1813 end: 17.0373 delta: 3.856
P2 start: 26.44 end: 34.0026 delta: 7.5626
P3 start: 40.0295 end: 50.9141 delta: 10.8845
P4 start: 54.0115 end: 71.8577 delta: 17.8462
P5 start: 72.8107 end: 89.6842 delta: 16.8735

H3: 0.00833415 H19: -0.00552217 H5: -0.0163696 H21: -0.254886 H7: 0.0157617 H23: -0.145289 H9: -0.00853123 H25: 0.131485 H11: -0.00426573 H27: 0.216644 H13: 0.0128892 H29: 0.0615143

 H21: -0.254886
 H21f: -0.0121374

 H23: -0.145289
 H23f: -0.0063169

 H25: 0.131485
 H25f: 0.00525939

 H27: 0.216644
 H27f: 0.00802385

 H29: 0.0615143
 H29f: 0.00212118

 H31: -0.0223079
 H31f: -0.000719608

 H33: 0.0284154
 H33f: 0.000861073

H19f: -0.00029064

c1sd = -0.8378 c1ed = 3.0182 c2sd = -1.9678 c2ed = -2.5297 c3sd = -2.922 c3ed = -3.3944 c4sd = -4.1307 c4ed = 0.0 varx = 1.3686%.